



United States of America
Department of Homeland Security
United States Coast Guard

Certification Date: 05 Aug 2025

Expiration Date: 05 Aug 2030

Certificate of Inspection

For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

Vessel Name	Official Number	IMO Number	Call Sign	Service
CCL 30	1305871			Tank Barge

Hailing Port	Hull Material	Horsepower	Propulsion
NEW ORLEANS, LA	Steel		
UNITED STATES			

Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
BELLE CHASSE, LA	01Oct2020	08Jun2020	R-735	R-735		R-200.0
UNITED STATES			I-	I-		I-0

Owner	Operator
CHEM CARRIERS LLC 1237 HIGHWAY 75 SUNSHINE, LA 70780 UNITED STATES	CHEM CARRIERS LLC 1237 HIGHWAY 75 SUNSHINE, LA 70780 UNITED STATES

This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators.

0 Masters	0 Licensed Mates	0 Chief Engineers	0 Oilers
0 Chief Mates	0 First Class Pilots	0 First Assistant Engineers	
0 Second Mates	0 Radio Officers	0 Second Assistant Engineers	
0 Third Mates	0 Able Seamen	0 Third Assistant Engineers	
0 Master First Class Pilot	0 Ordinary Seamen	0 Licensed Engineers	
0 Mate First Class Pilots	0 Deckhands	0 Qualified Member Engineer	

In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0

Route Permitted And Conditions Of Operation:
---Lakes, Bays, and Sounds plus Limited Coastwise---

Also, in fair weather only, not more than twelve (12) miles from shore between St. Marks and Carrabelle, Florida.

This vessel has been granted a fresh water service examination interval per 46 CFR 31.10-21(a)(2). If this vessel is operated in salt water more than 6 months in any 12 month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI notified in writing as soon as this change in status occurs.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

With this Inspection for Certification having been completed at Port Arthur, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Marine Safety Unit Port Arthur certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

Annual/Periodic/Re-Inspection				This certificate issued by: <i>L. L. Woodman</i> L. L. WOODMAN, CDR, USCG, By direction Officer in Charge, Marine Inspection Marine Safety Unit Port Arthur Inspection Zone
Date	Zone	A/P/R	Signature	



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Certificate of Inspection

Vessel Name: CCL 30

---Hull Exams---

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	31Oct2030	01Oct2020	
Internal Structure	31Aug2030	05Aug2025	01Oct2020

--- Liquid/Gas/Solid Cargo Authority/Conditions ---

Authorization: FLAMMABLE/COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

Total Capacity	Units	Highest Grade Type	Part151 Regulated	Part153 Regulated	Part154 Regulated
11709	Barrels	A	Yes	No	No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1C	626	8.74
2C	730	8.74
3C	649	8.74

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
I	1790	8ft 7in	13.5	Rivers and L/B/S
II	1905	9ft 1in	13.5	Rivers and L/B/S
III	2163	9ft 10in	13.5	Lakes, Bays, and Sounds
III	2265	10ft 9in	13.5	Rivers
III	2294	10ft 11in	12.8	Rivers

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial # C1-2304355, dated 15-Dec-23, may be carried. The specified hazardous cargoes may be carried only in the tanks indicated.

Per 46 CFR 150.130, the person in charge of the vessel is responsible for ensuring the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using figures, tables, and appendices of 46 CFR 150 in conjunction with the reactive group number from the "Compat Group No" column is listed in the vessel's CAA.

When the vessel is carrying cargoes containing 0.5% or greater benzene by volume, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C, are applied.

Vapor Control Authorization

Per 46 CFR 39, excluding Part 39.4000, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letter serial # C2-2100695, dated March 09, 2021, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

Tandem Loading

Per 46 CFR 39.1017 and 39.5000(e), this vessel's VCS has been evaluated and approved for multi-breasted tandem loading



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Vessel Name: CCL 30

with other vessels specifically approved to tandem load with this vessel.

Stability and Trim

Per 46 CFR 151.10(c)(2), the maximum tank weights listed above reflect uniform (within 5%) loading at the deepest draft allowed. When carrying Subchapter "O" cargoes at shallower drafts, the barge should always be loaded uniformly.

The maximum design density of cargo which may be filled to the tank top is 8.74 lbs/gal. Cargoes with higher densities, up to 13.5 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

--- Inspection Status ---

Fuel Tanks

Tank ID	Internal Examinations		
	Previous	Last	Next
Bow	-	23Jul2020	-

Cargo Tanks

Tank Id	Internal Exam			External Exam		
	Previous	Last	Next	Previous	Last	Next
1C	-	01Oct2020	31Oct2030	-	-	-
2C	-	01Oct2020	31Oct2030	-	-	-
3C	-	01Oct2020	31Oct2030	-	-	-

Hydro Test

Tank Id	Safety Valves	Previous	Last	Next
1C	-	-	-	-
2C	-	-	-	-
3C	-	-	-	-

---Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity	Class Type
2	40-B

END



Department of Homeland Security
United States Coast Guard

Serial #: C1-2304355

Dated: 15-Dec-23

Certificate of Inspection

Cargo Authority Attachment

Official #: 1305871

Shipyard: C&C Marine

Hull #: 341

46 CFR 151 Tank Group Characteristics

Tank Group Information		Cargo Identification			Hull Type	Cargo Seg Tank	Tanks			Cargo Transfer		Environmental Control		Fire Protection Provided	Special Requirements		Elec Haz	Temp Cont
Tnk Grp	Tanks in Group	Density	Press.	Temp.			Type	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space		General	Materials of Construction		
A	#1-#3	13.5	Atmos.	Amb.	I	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	40-1(f)(1), .50-5, .50-5(d), .50-60, .50-70(a), .50-70(b), .50-73,	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	Yes

- Notes: 1. Under Environmental Control, Tanks, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo tanks.
2. Under Environmental Control, Handling Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo handling space. NA means that the vessel does not have a cargo control space, and this requirement is not applied.
3. Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.

List of Authorized Cargoes

Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'l's of	Insp. Period
								App'd (Y or N)	VCS Category		

Authorized Subchapter O Cargoes

Bis(2-ethylhexyl) terephthalate	N/A	PEC	34	D/O	E	II	A	No	N/A	No	G
Olefins (C13+, all isomers)	85535-87-1	OFZ	30	D/O	E	III	A	Yes	1		G
Acetonitrile	75-05-8	ATN	37	O	C	III	A	Yes	3	No	G
Acrylonitrile	N/A	ACN	15 ²	O	C	II	A	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	111-69-3	ADN	37	O	E	II	A	Yes	1	No	G
Alkyl (C7-C9) nitrates	20633-12-9*	AKN	34 ²	O	NA	III	A	Yes	1	.50-81, .50-86	G
Aminoethyl ethanolamine	111-41-1	AEE	8	O	E	III	A	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	10192-30-0	ABX	43 ²	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	1336-21-6	AMH	6	O	NA	III	A	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	65996-91-0	AHO	33	O	NA	II	A	No	N/A	No	G
Benzene	71-43-2	BNZ	32	O	C	III	A	Yes	1	.50-60	G
Benzene, C10-16 alkyl derivatives	N/A	BEND	32	O	D	III	A	No	N/A		G
Benzene and mixtures having 10% Benzene or more	N/A	BHB	32 ²	O	C	III	A	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	N/A	BHA	32 ²	O	C	III	A	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	N/A	BTX	32	O	B/C	III	A	Yes	1	.50-60	G
Butyl acrylate (all isomers)	141-32-2	BAR	14	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	97-88-1	BMH	14	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	123-72-8	BAE	19	O	C	III	A	Yes	1	.55-1(h)	G
Camphor oil (light)	8008-51-3	CPO	18	O	D	II	A	No	N/A	No	G
Carbon tetrachloride	56-23-5	CBT	36	O	NA	III	A	Yes	3	No	G
Caustic potash solution	1310-58-3	CPS	5 ²	O	NA	III	A	No	N/A	.50-73, .55-1(j)	G

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Department of Homeland Security
United States Coast Guard

Serial #: C1-2304355
Dated: 15-Dec-23

Certificate of Inspection

Cargo Authority Attachment

Official #: 1305871

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Shipyard: C&C Marine

Hull #: 341

Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'l's of Construction	Insp. Period
								App'd (Y or N)	VCS Category		
Caustic soda solution	1310-73-2	CSS	5 ²	O	NA	III	A	No	N/A	.50-73, .55-1(j)	G
Chlorobenzene	108-90-7	CRB	36	O	D	III	A	Yes	1	No	G
Chloroform	67-66-3	CRF	36	O	NA	III	A	Yes	3	No	G
Coal tar crude bases	65996-84-1	CTB	9	O	D	I	A	No	N/A	.50-5, .50-73, .55-1(e)	G
Coal tar naphtha solvent	8030-30-6	NCT	33	O	D	III	A	Yes	1	.50-73	G
Creosote	N/A	CCW	21 ²	O	E	III	A	Yes	1	No	G
Cresols (all isomers)	1319-77-3	CRS	21	O	E	III	A	Yes	1	No	G
Cresylate spent caustic	N/A	CSC	5	O	NA	III	A	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	N/A	CRX	21	O	E	III	A	Yes	1	.55-1(f)	G
Crotonaldehyde	123-73-9	CTA	19 ²	O	C	II	A	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	N/A	CHG	19 ²	O	C	III	A	Yes	1	No	G
Cyclohexanone	108-94-1	CCH	18	O	D	III	A	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	N/A	CYX	18 ²	O	E	III	A	Yes	1	.56-1 (b)	G
Cyclohexylamine	N/A	CHA	7	O	D	III	A	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	N/A	CSB	30	O	D	III	A	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	N/A	IAI	14	O	E	III	A	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	25321-22-6	DBX	36	O	E	III	A	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	75-34-3	DCH	36	O	C	III	A	Yes	1	No	G
2,2'-Dichloroethyl ether	N/A	DEE	41	O	D	II	A	Yes	1	.55-1(f)	G
Dichloromethane	75-09-2	DCM	36	O	NA	III	A	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	5742-19-8	DDE	43	O	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	2008-39-1	DAD	0 ^{1,2}	O	A	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	34075-45-1	DTI	43 ²	O	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	78-99-9	DPB	36	O	C	III	A	Yes	3	No	G
1,2-Dichloropropane	78-87-5	DPP	36	O	C	III	A	Yes	3	No	G
1,3-Dichloropropane	142-28-9	DPC	36	O	C	III	A	Yes	3	No	G
1,3-Dichloropropene	N/A	DPU	15	O	D	II	A	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	8003-19-8	DMX	15	O	C	II	A	Yes	1	No	G
Diethanolamine	111-42-2	DEA	8	O	E	III	A	Yes	1	.55-1(c)	G
Diethylamine	109-89-7	DEN	7	O	C	III	A	Yes	3	.55-1(c)	G

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Certificate of Inspection

Cargo Authority Attachment

Official #: 1305871

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Shipyard: C&C Marine

Hull #: 341

Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
								App'd (Y or N)	VCS Category		
Diethylenetriamine	111-40-0	DET	7 ²	O	E	III	A	Yes	1	.55-1(c)	G
Diisobutylamine	110-96-3	DBU	7	O	D	III	A	Yes	3	.55-1(c)	G
Diisopropanolamine	110-97-4	DIP	8	O	E	III	A	Yes	1	.55-1(c)	G
Diisopropylamine	108-18-9	DIA	7	O	C	II	A	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	127-19-5	DAC	10	O	E	III	A	Yes	3	.56-1(b)	G
Dimethylethanolamine	108-01-0	DMB	8	O	D	III	A	Yes	1	.56-1(b), (c)	G
Dimethylformamide	68-12-2	DMF	10	O	D	III	A	Yes	1	.55-1(e)	G
Di-n-propylamine	142-84-7	DNA	7	O	C	II	A	Yes	3	.55-1(c)	G
1-Dodecene	N/A	DDC	30	O	E	II	A	No	N/A	No	G
Dodecyl dimethylamine, Tetradecyldimethylamine mixture	112-18-5*	DOT	7	O	E	III	A	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	N/A	DOS	43	O	#	II	A	No	N/A	No	G
EE Glycol Ether Mixture	N/A	EEG	40	O	D	III	A	No	N/A	No	G
Ethanolamine	141-43-5	MEA	8	O	E	III	A	Yes	1	.55-1(c)	G
Ethyl acrylate	140-88-5	EAC	14	O	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solutions (72% or less)	75-04-7	EAN	7	O	A	II	A	Yes	6	.55-1(b)	G
N-Ethylbutylamine	13360-63-9	EBA	7	O	D	III	A	Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	5459-93-8	ECC	7	O	D	III	A	Yes	1	.55-1(b)	G
Ethylene cyanohydrin	109-78-4	ETC	20	O	E	III	A	Yes	1	No	G
Ethylenediamine	107-15-3	EDA	7 ²	O	D	III	A	Yes	1	.55-1(c)	G
Ethylene dichloride	107-06-2	EDC	36 ²	O	C	III	A	Yes	1	No	G
Ethylene glycol hexyl ether	112-25-4	EGH	40	O	E	III	A	No	N/A	No	G
Ethylene glycol monoalkyl ethers	N/A	EGC	40	O	D/E	III	A	Yes	1	No	G
Ethylene glycol propyl ether	2807-30-9	EGP	40	O	E	III	A	Yes	1	No	G
2-Ethylhexyl acrylate	103-11-7	EAI	14	O	E	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	97-63-2	ETM	14	O	D/E	III	A	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	645-62-5	EPA	19 ²	O	E	III	A	Yes	1	No	G
Formaldehyde solution (37% to 50%)	50-00-0	FMS	19 ²	O	D/E	III	A	Yes	1	.55-1(h)	G
Furfural	98-01-1	FFA	19	O	D	III	A	Yes	1	.55-1(h)	G
Glutaraldehyde solutions (50% or less)	111-30-8	GTA	19	O	NA	III	A	No	N/A	No	G
Hexamethylenediamine solution	124-09-4	HMC	7	O	E	III	A	Yes	1	.55-1(c)	G
Hexamethylenimine	111-49-9	HMI	7	O	C	II	A	Yes	1	.56-1(b), (c)	G
Isoprene	78-79-5	IPR	30	O	A	III	A	Yes	7	.50-70(a), .50-81(a), (b)	G

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Shipyard: C&C Marine

Hull #: 341

Cargo Identification							Conditions of Carriage				
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Isoprene, Pentadiene mixture	N/A	IPN	30	O	B	III	A	No	N/A	.50-70(a), .55-1(c)	G
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	68131-33-9	KPL	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c), (g)	G
Mesityl oxide	141-79-7	MSO	18 ²	O	D	III	A	Yes	1	No	G
Methyl acrylate	96-33-3	MAM	14	O	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Methylcyclopentadiene dimer	26472-00-4	MCK	30	O	C	III	A	Yes	1	No	G
Methyl diethanolamine	105-59-9	MDE	8	O	E	III	A	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethyl pyridine	104-90-5	MEP	9	O	E	III	A	Yes	1	.55-1(e)	G
Methyl methacrylate	80-62-6	MMM	14	O	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
2-Methylpyridine	109-06-8	MPR	9	O	D	III	A	Yes	3	.55-1(c)	G
alpha-Methylstyrene	98-83-9	MSR	30	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Morpholine	110-91-8	MPL	7 ²	O	D	III	A	Yes	1	.55-1(c)	G
Nitroethane	79-24-3	NTE	42	O	D	II	A	No	N/A	.50-81, .56-1(b)	G
1- or 2-Nitropropane	108-03-2	NPM	42	O	D	III	A	Yes	1	.50-81	G
Corn oil	8001-30-7	OCO	34	O	E	II	A	No	N/A	.50-73	G
1,3-Pentadiene	1574-41-0	PDE	30	O	A	III	A	Yes	7	.50-70(a), .50-81	G
Perchloroethylene	127-18-4	PER	36	O	NA	III	A	No	N/A	No	G
Polyethylene polyamines	109-89-7	PEB	7 ²	O	E	III	A	Yes	1	.55-1(e)	G
Potassium chloride solution (brine)	N/A	PCSB	0	O	NA	III	A	No	N/A		G
iso-Propanolamine	78-96-6	MPA	8	O	E	III	A	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	N/A	PAX	8	O	E	III	A	Yes	1	.56-1(b), (c)	G
Isopropylamine	75-31-0	IPP	7	O	A	II	A	Yes	5	.55-1(c)	G
Pyridine	110-86-1	PRD	9	O	C	III	A	Yes	1	.55-1(e)	G
Pyrolysis Gasoline	N/A	PYGA	0	O	B	III	A	Yes	1	.50-5, .50-60	G
Solution containing ammonium thiosulfate (≤60%), ammonium sulfate (≤6%) and ammonium sulfite (≤5%)		ATAS	0	O	NA	III	A	No	N/A		G
Sodium aluminate solution (45% or less)	11138-49-1	SAU	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	7775-09	SDD	0 ^{1,2}	O	NA	III	A	No	N/A	.50-73	G
Sodium hypochlorite solution (20% or less)	7681-52-9	SHQ	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b)	G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	N/A	SSH	0 ^{1,2}	O	NA	III	A	Yes	1	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	N/A	SSI	0 ^{1,2}	O	NA	III	A	No	N/A	.50-73, .55-1(b)	G

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Shipyard: C&C Marine

Hull #: 341

Official #: 1305871

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Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Sodium sulfide, hydrosulfide solution (H ₂ S greater than 200 ppm)	N/A	SSJ	0 1,2	O	NA	II	A	No	N/A	.50-73, .55-1(b)	G
Spent Caustic Soda Solution (containing up to 0.1% Benzene)	N/A	SCSS	5	O	NA	III	A	No	N/A	.50-60, .50-73, .55-1(j)	G
Styrene monomer	100-42-5	STY	30	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Tetrachloroethane	79-34-5	TEC	36	O	NA	III	A	No	N/A	No	G
1,1,3,3 Tetrachloroprop-1-ene		TTCP	36	O	E	II	A	Yes	3		G
Tetraethylene pentamine	112-57-2	TTP	7	O	E	III	A	Yes	1	.55-1(c)	G
Tetrahydrofuran	109-99-9	THF	41	O	C	III	A	Yes	1	.50-70(b)	G
o-Toluidine	95-53-4	TLI	9	O	E	II	A	Yes	3	.50-5, .50-73	G
1,2,4-Trichlorobenzene	120-82-1	TCB	36	O	E	III	A	Yes	1	No	G
1,1,2-Trichloroethane	79-00-5	TCM	36	O	NA	III	A	Yes	1	.50-73, .56-1(a)	G
Trichloroethylene	79-01-6	TCL	36 2	O	NA	III	A	Yes	1	No	G
1,2,3-Trichloropropane	96-18-4	TCN	36	O	E	II	A	Yes	3	.50-73, .56-1(a)	G
Triethanolamine	102-71-6	TEA	8 2	O	E	III	A	Yes	1	.55-1(b)	G
Triethylamine	121-44-8	TEN	7	O	C	II	A	Yes	3	.55-1(e)	G
Triethylenetetramine	112-24-3	TET	7 2	O	E	III	A	Yes	1	.55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	960-71-4	TPB	5	O	NA	III	A	No	N/A	.56-1(a), (b), (c)	G
Trisodium phosphate solution	10101-89-0	TSP	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c).	G
Urea, Ammonium nitrate solution (containing more than 2% NH ₃)	N/A	UAS	6	O	NA	III	A	No	N/A	.56-1(b)	G
Vanillin black liquor (free alkali content, 3% or more).	68514-06-7	VBL	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c), (g)	G
Vinyl acetate	108-05-4	VAM	13	O	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Vinyl neodecanoate	51000-52-3	VND	13	O	E	III	A	No	N/A	.50-70(a), .50-81(a), (b)	G
Vinyltoluene	25013-15-4	VNT	13	O	D	III	A	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (	G

Subchapter D Cargoes Authorized for Vapor Control

Acetone	67-64-1	ACT	18 2	D	C		A	Yes	1
Acetophenone	98-86-2	ACP	18	D	E		A	Yes	1
Alcohol (C12-C16) poly(20+) ethoxylates	68551-12-2*	APW	20	D	E		A	Yes	1
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	84133-50-6*	AEA	20	D	E		A	Yes	1
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	84133-50-6*	AEB	20	D	E		A	Yes	1
Alcohols (C13+)	112-70-9*	ALY	20	D	E		A	Yes	1

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Shipyard: C&C Marine

Hull #: 341

Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Amyl acetate (all isomers)	628-63-7	AEC	34	D	D		A	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	N/A	AAI	20	D	D		A	Yes	1		
Benzyl acetate	140-11-4	BZE	34	D	E		A	Yes	1		
Benzyl alcohol	100-51-6	BAL	21	D	E		A	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	N/A	BFY	20	D	E		A	Yes	1		
Butyl acetate (all isomers)	123-86-4	BAX	34	D	D		A	Yes	1		
Isobutyl alcohol	78-83-1	IAL	20 ²	D	D		A	Yes	1		
Butyl alcohol (n-)	N/A	BAN	20 ²	D	D		A	Yes	1		
Butyl alcohol (sec-)	N/A	BAS	20 ²	D	C		A	Yes	1		
tert-Butyl Alcohol	N/A	BAT	20 ²	D	C		A	Yes	1		
Butyl benzyl phthalate	85-68-7	BPH	34	D	E		A	Yes	1		
Butyl toluene	1595-05-7	BUE	32	D	D		A	Yes	1		
Caprolactam solutions	105-60-2	CLS	22	D	E		A	Yes	1		
Cycloheptane	291-64-5	CYE	31	D	C		A	Yes	1		
Cyclohexane	110-82-7	CHX	31	D	C		A	Yes	1		
Cyclohexanol	108-93-0	CHN	20	D	E		A	Yes	1		
Cyclohexyl acetate	622-45-7	CYC	34	D	D		A	Yes	1		
1,3-Cyclopentadiene dimer (molten)	7313-32-8	CPD	30	D	D/E		A	Yes	2		
Cyclopentane	287-92-3	CYP	31	D	B		A	Yes	1		
p-Cymene	99-87-6	CMP	32	D	D		A	Yes	1		
iso-Decaldehyde	N/A	IDA	19	D	E		A	Yes	1		
n-Decaldehyde	N/A	DAL	19	D	E		A	Yes	1		
Decanoic acid	334-48-5	DCO	4	D	#		A	Yes	1		
Decene	872-05-9	DCE	30	D	D		A	Yes	1		
Decyl alcohol (all isomers)	85566-12-7	DAX	20 ²	D	E		A	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	104-72-3	DBZ	32	D	E		A	Yes	1		
Diacetone alcohol	123-42-2	DAA	20 ²	D	D		A	Yes	1		
Dibutyl phthalate	84-74-2	DPA	34	D	E		A	Yes	1		
Diethylbenzene	25340-17-4	DEB	32	D	D		A	Yes	1		
Diethylene glycol	111-46-6	DEG	40 ²	D	E		A	Yes	1		
Diisobutylene	25167-70-8	DBL	30	D	C		A	Yes	1		
Diisobutyl ketone	108-83-8	DIK	18	D	D		A	Yes	1		

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Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
								App'd (Y or N)	VCS Category		
Diisopropylbenzene (all isomers)	25321-09-9	DIX	32	D	E		A	Yes	1		
Dimethyl phthalate	131-11-3	DTL	34	D	E		A	Yes	1		
Diocetyl phthalate	117-84-0	DOP	34	D	E		A	Yes	1		
Dipentene	138-86-3	DPN	30	D	D		A	Yes	1		
Diphenyl	92-52-4	DIL	32	D	D/E		A	Yes	1		
Diphenyl, Diphenyl ether mixtures	8004-13-5	DDO	33	D	E		A	Yes	1		
Diphenyl ether	101-84-8	DPE	41	D	{E}		A	Yes	1		
Dipropylene glycol	25265-71-8	DPG	40	D	E		A	Yes	1		
Distillates: Flashed feed stocks	8002-05-9	DFF	33	D	E		A	Yes	1		
Distillates: Straight run	68814-87-9	DSR	33	D	E		A	Yes	1		
Dodecene (all isomers)	25378-22-7	DOZ	30	D	D		A	Yes	1		
Dodecylbenzene	123-01-3	DDB	32	D	E		A	Yes	1		
2-Ethoxyethyl acetate	111-15-9	EEA	34	D	D		A	Yes	1		
Ethoxy triglycol (crude)	112-50-5	ETG	40	D	E		A	Yes	1		
Ethyl acetate	141-78-6	ETA	34	D	C		A	Yes	1		
Ethyl acetoacetate	141-97-9	EAA	34	D	E		A	Yes	1		
Ethyl alcohol	64-17-5	EAL	20 ²	D	C		A	Yes	1		
Ethylbenzene	100-41-4	ETB	32	D	C		A	Yes	1		
Ethyl butanol	97-95-0	EBT	20	D	D		A	Yes	1		
Ethyl tert-butyl ether	637-92-3	EBE	41	D	C		A	Yes	1		
Ethyl butyrate	105-54-4	EBR	34	D	D		A	Yes	1		
Ethyl cyclohexane	1678-91-7	ECY	31	D	D		A	Yes	1		
Ethylene glycol	107-21-1	EGL	20 ²	D	E		A	Yes	1		
Ethylene glycol butyl ether acetate	112-07-2	EMA	34	D	E		A	Yes	1		
Ethylene glycol diacetate	111-55-7	EGY	34	D	E		A	Yes	1		
Ethylene glycol phenyl ether	122-99-6	EPE	40	D	E		A	Yes	1		
Ethyl-3-ethoxypropionate	763-69-9	EEP	34	D	D		A	Yes	1		
2-Ethylhexanol	104-76-7	EHX	20	D	E		A	Yes	1		
Ethyl propionate	105-37-3	EPR	34	D	C		A	Yes	1		
Ethyl toluene	25550-14-5	ETE	32	D	D		A	Yes	1		
Formamide	75-12-7	FAM	10	D	E		A	Yes	1		
Furfuryl alcohol	98-00-0	FAL	20 ²	D	E		A	Yes	1		
Gasoline blending stocks: Alkylates	64741-64-6	GAK	33	D	C		A	Yes	1		

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Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat's of Construction	Insp. Period
Gasoline blending stocks: Reformates	8006-61-9	GRF	33	D	C		A	Yes	1		
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	86290-81-5	GAT	33	D	A/C		A	Yes	1		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	N/A	GAV	33	D	C		A	Yes	1		
Gasolines: Casinghead (natural)	68425-31-0	GCS	33	D	A/C		A	Yes	1		
Gasolines: Polymer	8006-61-9	GPL	33	D	C		A	Yes	1		
Gasolines: Straight run	68606-11-1	GSR	33	D	A/C		A	Yes	1		
Glycerine	56-81-5	GCR	20 ²	D	E		A	Yes	1		
Heptane (all isomers)	142-82-5	HMX	31	D	C		A	Yes	1		
n-Heptanoic acid	111-14-8	HEN	4	D	E		A	Yes	1		
Heptanol (all isomers)	111-70-6	HTX	20	D	D/E		A	Yes	1		
Heptene (all isomers)	592-76-7	HPX	30	D	C		A	Yes	2		
Heptyl acetate	112-06-1	HPE	34	D	E		A	Yes	1		
Hexane (all isomers)	110-54-3	HXS	31 ²	D	B/C		A	Yes	1		
Hexanoic acid	142-62-1	HXO	4	D	E		A	Yes	1		
Hexanol	N/A	HXN	20	D	D		A	Yes	1		
Hexene (all isomers)	592-41-6	HEX	30	D	C		A	Yes	2		
Hexylene glycol	107-41-5	HXG	20	D	E		A	Yes	1		
Isophorone	78-59-1	IPH	18 ²	D	E		A	Yes	1		
Jet fuel: JP-4	50815-00-4	JPF	33	D	E		A	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	8008-20-6	JPV	33	D	D		A	Yes	1		
Kerosene	8008-20-6	KRS	33	D	D		A	Yes	1		
Lauric acid	143-07-7	LRA	34	D	#		A	Yes	1		
Methyl acetate	79-20-9	MTT	34	D	D		A	Yes	1		
Methyl alcohol	67-56-1	MAL	20 ²	D	C		A	Yes	1		
Methylamyl acetate	7789-99-3	MAC	34	D	D		A	Yes	1		
Methylamyl alcohol	108-11-2	MAA	20	D	D		A	Yes	1		
Methyl amyl ketone	110-43-0	MAK	18	D	D		A	Yes	1		
Methyl tert-butyl ether	1634-04-4	MBE	41 ²	D	C		A	Yes	1		
Methyl butyl ketone	N/A	MBK	18	D	C		A	Yes	1		
Methyl butyrate	623-42-7	MBU	34	D	C		A	Yes	1		
Methylcyclohexane	591-47-9	MCY	31	D	C		A	Yes	1		
Methyl ethyl ketone	78-93-3	MEK	18 ²	D	C		A	Yes	1		

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Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'l's of Construction	Insp. Period
								App'd (Y or N)	VCS Category		
Methyl formate	107-31-3	MFM	34	D	A		A	Yes	6		
Methyl heptyl ketone	821-55-6	MHK	18	D	D		A	Yes	1		
2-Methyl-2-hydroxy-3-butyne	115-19-5	MHB	20	D	C		A	Yes	1		
Methyl isobutyl ketone	108-10-1	MIK	18 ²	D	C		A	Yes	1		
Mineral spirits	64475-85-0	MNS	33	D	D		A	Yes	1		
Myrcene	123-35-3	MRE	30	D	D		A	Yes	1		
Naphtha: Heavy	64742-94-5	NAG	33	D	#		A	Yes	1		
Naphtha: Petroleum	64742-94-5	PTN	33	D	#		A	Yes	1		
Naphtha: Solvent	64742-94-5	NSV	33	D	D		A	Yes	1		
Naphtha: Stoddard solvent	8052-41-3	NSS	33	D	D		A	Yes	1		
Naphtha: Varnish makers and painters (75%)	8032-32-4	NVM	33	D	C		A	Yes	1		
Neodecanoic acid	26896-20-8	NEA	4	D	E		A	Yes	1		
Nonane (all isomers)	111-84-2	NAX	31	D	D		A	Yes	1		
Nonene (all isomers)	N/A	NON	30	D	D		A	Yes	2		
Nonyl alcohol (all isomers)	143-08-8	NNS	20 ²	D	E		A	Yes	1		
Nonyl phenol	25154-52-3	NNP	21	D	E		A	Yes	1		
Nonyl phenol poly(4+)ethoxylates	9016-45-9	NPE	40	D	E		A	Yes	1		
Octane (all isomers)	111-65-9	OAX	31	D	C		A	Yes	1		
Octanoic acid (all isomers)	124-07-2	OAY	4	D	E		A	Yes	1		
Octanol (all isomers)	111-87-5	OCX	20 ²	D	E		A	Yes	1		
Octene (all isomers)	111-66-0	OTX	30	D	C		A	Yes	2		
Oil, fuel: No. 2	68476-30-2	OTW	33	D	D/E		A	Yes	1		
Oil, fuel: No. 2-D	N/A	OTD	33	D	D		A	Yes	1		
Oil, fuel: No. 4	68553-00-4	OFR	33	D	D/E		A	Yes	1		
Oil, fuel: No. 5	70892-11-4	OFV	33	D	D/E		A	Yes	1		
Oil, fuel: No. 6	68553-00-4	OSX	33	D	E		A	Yes	1		
Oil, misc: Crude	N/A	OIL	33	D	A/D		A	Yes	1		
Oil, misc: Diesel	68334-30-5	ODS	33	D	D/E		A	Yes	1		
Oil, misc: Gas, high pour	8006-61-9	OGP	33	D	E		A	Yes	1		
Oil, misc: Lubricating	93572-43-1	OLB	33	D	E		A	Yes	1		
Oil, misc: Residual	68476-33-5	ORL	33	D	E		A	Yes	1		
Oil, misc: Turbine	N/A	OTB	33	D	E		A	Yes	1		
alpha-Olefins (C6-C18) mixtures	592-41-6	OAM	30	D	E		A	Yes	1		

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Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Pentane (all isomers)	109-66-0	PTY	31	D	A		A	Yes	5		
Pentene (all isomers)	109-67-1	PTX	30	D	A		A	Yes	5		
n-Pentyl propionate	624-54-4	PPE	34	D	D		A	Yes	1		
alpha-Pinene	7785-26-4	PIO	30	D	D		A	Yes	1		
beta-Pinene	127-91	PIP	30	D	D		A	Yes	1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	N/A	PAG	40	D	E		A	Yes	1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	N/A	PAF	34	D	E		A	Yes	1		
Polybutene	9003-29-6	PLB	30	D	E		A	Yes	1		
Polypropylene glycol	25322-69-4	PGC	40	D	E		A	Yes	1		
Propionaldehyde	123-38-6	PAD	19	D	C		A	Yes	2		
Isopropyl acetate	108-21-4	IAC	34	D	C		A	Yes	1		
n-Propyl acetate	109-60-4	PAT	34	D	C		A	Yes	1		
Isopropyl alcohol	67-63-0	IPA	20 ^{2,3}	D	C		A	Yes	1		
n-Propyl alcohol	71-23-8	PAL	20 ²	D	C		A	Yes	1		
Propylbenzene (all isomers)	103-65-1	PBY	32	D	D		A	Yes	1		
Isopropylcyclohexane	696-29-7	IPX	31	D	D		A	Yes	1		
Propylene glycol	57-55-6	PPG	20 ²	D	E		A	Yes	1		
Propylene glycol methyl ether acetate	108-65-6	PGN	34	D	D		A	Yes	1		
Propylene tetramer	6842-15-5	PTT	30	D	D		A	Yes	1		
Sulfolane	126-33-0	SFL	39	D	E		A	Yes	1		
Tetraethylene glycol	112-60-7	TTG	40	D	E		A	Yes	1		
Tetrahydronaphthalene	119-64-2	THN	32	D	E		A	Yes	1		
Tetramethylbenzene (all isomers)	527-53-7	TTC	32	D	#		A	Yes	1		
Toluene	108-88-3	TOL	32	D	C		A	Yes	1		
Tricresyl phosphate (containing less than 1% ortho isomer)	1330-78-5	TCP	34	D	E		A	Yes	1		
Triethylbenzene	102-25-0 (1,3,5)	TEB	32	D	E		A	Yes	1		
Triethylene glycol	112-27-6	TEG	40	D	E		A	Yes	1		
Triethyl phosphate	78-40-0	TPS	34	D	E		A	Yes	1		
Trimethylbenzene (all isomers)	95-63-6 (1,2,4)	TRE	32	D	{D}		A	Yes	1		
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	18491-15-1	TMP	34	D	E		A	Yes	1		
Trixylyl phosphate	N/A	TRP	34	D	E		A	Yes	1		
1-Undecene	821-95-4	UDC	30	D	D/E		A	Yes	1		

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Department of Homeland Security
United States Coast Guard

Serial #: C1-2304355

Dated: 15-Dec-23

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Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
								App'd (Y or N)	VCS Category		
Undecyl alcohol	112-42-5	UND	20	D	E		A	Yes	1		
Xylenes	106-42-3	XLX	32	D	D		A	Yes	1		



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Explanation of terms & symbols used in the Table:

Cargo Identification

Name	The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.
Chem Code none	The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual. Certain mixtures of cargoes may not have a CHRIS Code assigned.
Compatibilty Group No.	The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.
Note 1	Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-ENG-5), 2703 Martin Luther King Jr. Ave SE Stop 7509, Washington DC 20593-7509. Email: hazmatstandards@uscg.mil.
Note 2	See Appendix I to 46 CFR Part 150 - exceptions to the compatibility chart.
Subchapter Subchapter D Subchapter O Note 3	The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified. Those flammable and combustible liquids listed in 46 CFR Table 30.25-1. Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2. Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.
Grade	The cargo classification assigned to each flammable or combustible liquid. Grades inside of "{" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
A, B, C D, E Note 4	Flammable liquid cargoes, as defined in 46 CFR 30-10.22. Combustible liquid cargoes, as defined in 46 CFR 30-10.15. The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
NA #	Those subchapter O cargoes which are not classified as a flammable or combustible liquid. No flammability/combustibility grade has been assigned yet, as the necessary flash point/vapor pressure data for such assignments are presently not available.
Hull Type I II III NA	The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1. Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1). Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3). Designed to carry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4). Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

Tank Group	The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.

Conditions of Carriage

Tank Group	The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
VCS Category:	The specified cargo's provisional classification for vapor control systems.
Category 1	(No additional VCS requirements above those for benzene, gasoline and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.2011) and the pressure drop calculations (46 CFR 39.3001) must use appropriate friction factors, vapor densities and vapor growth rates.
Category 2	(Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety components and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation arrester.
Category 3	(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.2009. This requirement is in addition to the requirements of Category 1.
Category 4	(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.
Category 5	(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.
Category 6	(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5.
Category 7	(High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.
none	The cargo has not been evaluated/classified for use in vapor control systems.

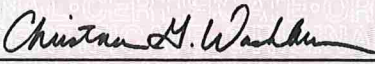


UNITED STATES OF AMERICA

DEPARTMENT OF HOMELAND SECURITY
UNITED STATES COAST GUARD

NATIONAL VESSEL DOCUMENTATION CENTER

CERTIFICATE OF DOCUMENTATION

VESSEL NAME CCL 30		OFFICIAL NUMBER 1305871	IMO OR OTHER NUMBER 341	YEAR COMPLETED 2020	
HAILING PORT NEW ORLEANS LA		HULL MATERIAL STEEL		MECHANICAL PROPULSION NO	
GROSS TONNAGE 735 GRT	NET TONNAGE 735 NRT	LENGTH 200.0	BREADTH 35.0	DEPTH 12.5	
PLACE BUILT BELLE CHASSE LA					
OWNERS CHEM CARRIERS LLC COMPRISED OF ONE MEMBER			OPERATIONAL ENDORSEMENTS COASTWISE		
MANAGING OWNER CHEM CARRIERS LLC 1237 HIGHWAY 75 SUNSHINE LA 70780					
RESTRICTIONS NO RECREATION - BARGE, 79 FEET OR MORE IN LENGTH, MEASURED UNDER SIMPLIFIED SYSTEM					
ENTITLEMENTS NONE					
REMARKS NONE					
ISSUE DATE JANUARY 09, 2026		THIS CERTIFICATE EXPIRES FEBRUARY 28, 2027			
				 DIRECTOR, NATIONAL VESSEL DOCUMENTATION CENTER	





National Pollution Funds Center

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Click on the Document Icon  to the left of a record to display a COFR Confirmation in html. You may print the COFR Confirmation by right clicking your mouse and selecting "print" from the list.

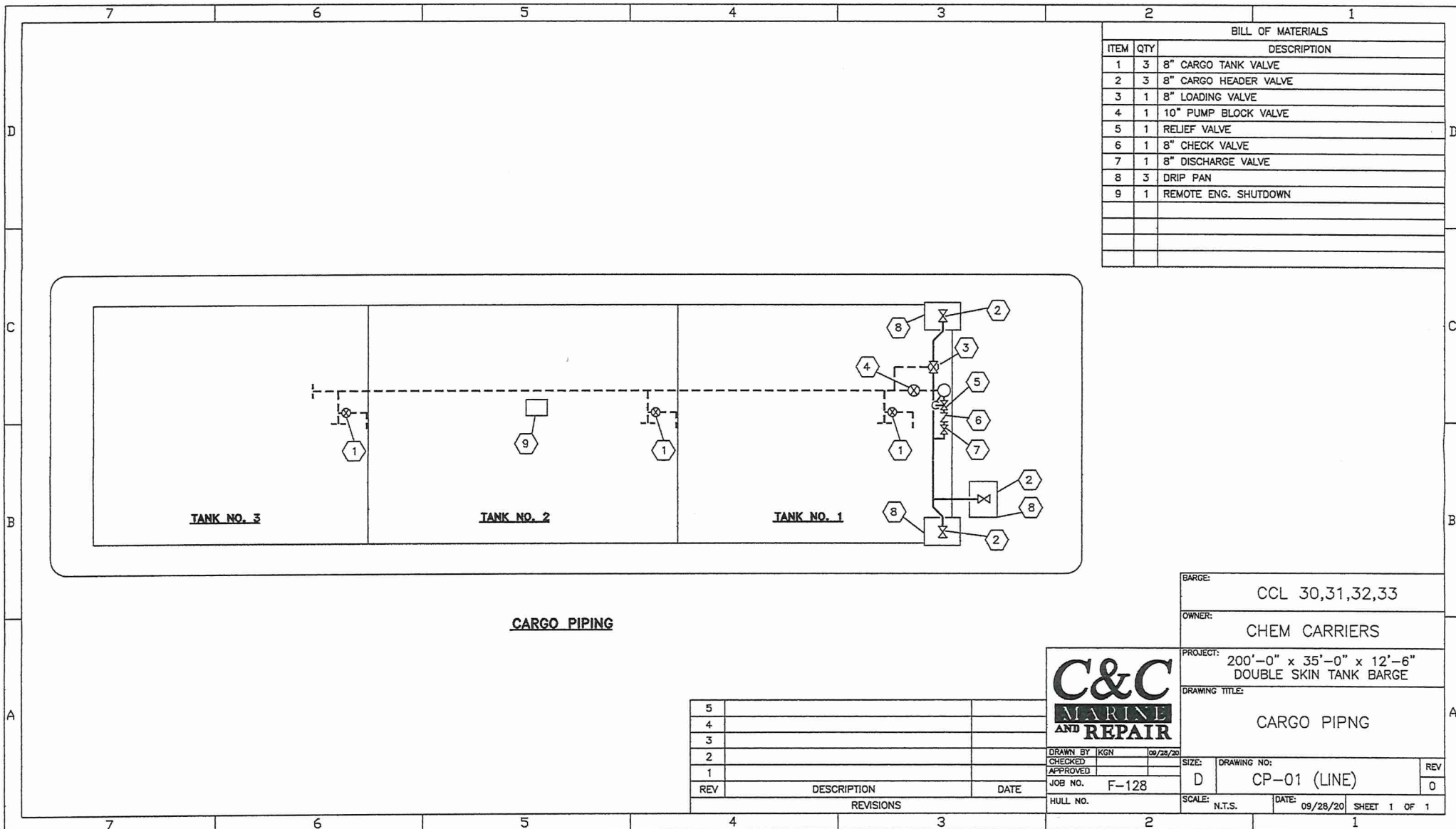
VESEL NAME	VESEL TYPE	HULL TYPE	GROSS TONNAGE	COFR NUMBER	EFFECTIVE DATE	EXPIRATION DATE	COFR APPLICANT	VIN	INSURANCE CANCEL FLAG
 CCL 30	TANKBARGE D		735	841310 - 21	10/1/2023	10/1/2026	CHEM CARRIERS, L.L.C	D1305871	

< Prev Next >

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Version 3.7 -- This version is designed for Internet Explorer, Edge, Chrome, Firefox and Safari.





BARGE PIPING LETTER

INSTRUCTIONS: ALL FIELDS ARE REQUIRED. USE N/A ON ANY NON-APPLICABLE LINE.

BARGE OWNER/BARGE NAME: ChemCarriers / CCL30

Letter expiration date (one year from test date): 7-01-27

NOTE: Test results are valid for (1) year from the date of test.

1. Cargo Piping and Valves (actual date of test): 7-01-26

Test Pressure (188 psi): 188 psi

2. Cargo Relief Valve (actual date of test): 7-01-26

Test Pressure (125 psi): 125 psi

3. Cargo Pressure Gauge (actual date of test): 7-01-26

Percent of Accuracy (%): 98%

4. Steam Piping and Relief Valves (actual date of test): N/A

Test Pressure (125 psi): N/A

Signature of Tester:	<u>Cordelia B. Jenkins</u>
Printed Name of Tester:	<u>Cordelia B. Jenkins</u>
Company/Location of Tester:	<u>K-solv Maritime / Channelview TX.</u>

1015 Lakeside Dr, Channelview, TX 77530

Phone: 281-452-4000 Fax: 281-452-5523

Revised 10/03/2019



BARGE VAPOR TIGHTNESS LETTER

NOTE: Test results are valid for (1) one year from date of test

- Test date: 7-01-26
- Barge owner: Chem Carriers
- Barge Name/Official Number: CCL30
- Maximum load rate (BPH): 3500 (BPH)

→ Pressure cargo tanks and vapor system to (28) twenty-eight inches of water using a Manometer to record the time and pressure. Close all valves and allow the vessel to Remain pressure for (30) thirty minutes. Use soap to test and inspect for leaks. After (30) thirty minutes, record pressure and times.

→ Test cargo tanks and Vapor System to 28" inches of water.
→ Start Time: 9:30 Beginning Pressure: 28"
→ End Time: 10:00 Ending Pressure: 27.5"

✓ This vessel has been tested in accordance with Section 61.304f and has been found to to be vapor tight.

Company of Tester:	Location:
<u>K-solv Maritime</u>	<u>channelview TX</u>
Name of Tester (Print):	Signature of Tester:
<u>Corden B. Jenkins</u>	<u>[Signature]</u>
Name of Witness (Print):	Signature of Witness:
<u>Edgar Quin</u>	<u>Edgar-Quin</u>
Affiliation/Company of Witness (Print)	
<u>K-solv / supervisor</u>	

1015 Lakeside Dr, Channelview, TX 77530
Phone: 281-452-4000 Fax: 281-452-5523

Revised 10/03/2019

TEST RESULTS FOR ERL 6" PV VALVE

Pressure Curve

Customer	Chem Carriers
Barge Number	CCL 30
Work Order	HOU-21016-WO
Test date:	7/22/2025
Serial Number	4404-2025

VALVE SETTINGS	PRESSURE	VACUUM
	3.00	2.0

Opening Pressure Test	
Test Number	Valve Opening Pressure (PSI)
1	2.8
2	2.7
3	2.7
4	2.8
5	2.7
Average	2.73
Delta	0.1



Airflow Pressure Test

AIRFLOW (CFM)	0	40	60	80	100	120	140	160	180	200
Pressure	2.73	2.9	3.0	3.0	3.0	3.0	2.9	2.9	2.9	#VALUE!
Differential from Opening Point		0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	#VALUE!



INC.

Tested By

Christopher Salazar

Witnessed By

Javier Gutierrez

Christopher Salazar

Javier Gutierrez

Safety Valve Inspection Report

Certificate nr 6138
Date 07-22-2025

Job no. HOU-21017-WO
Client CHEM CARRIERS
Tag. No. CCL 30

Set pressure (cold) 125.0 psi
Manufacturer FARRIS
Type / Model 26PA12L-120
Serial No. 959459-3-A14

Valve Data

Size 4XPX6
Rating 300X150
Nozzle / Orifice P

Set Pressure Test

Found set pressure 125.4 psi
Reseat pressure (indication) 123.4 psi
Result Passed
Test method AIR

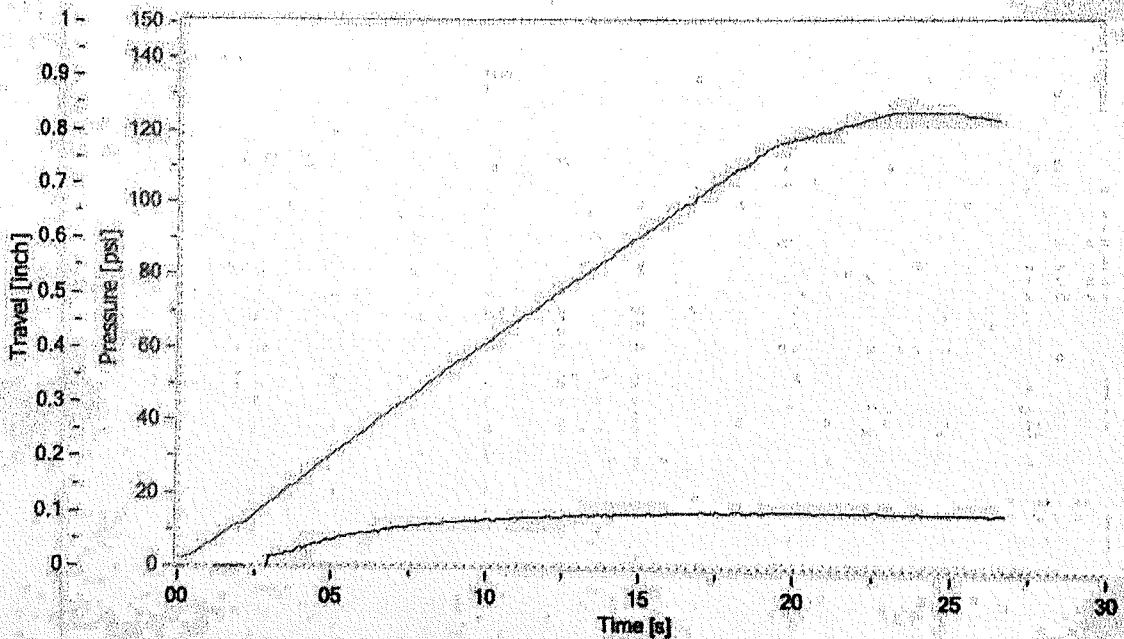
Test data

Seat tightness test

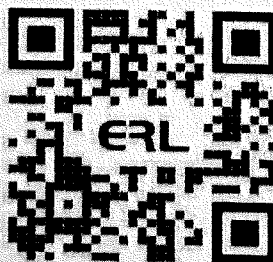
Leakage 0 bubbles/min.
Test pressure 113.8 psi
Result Passed

Back Pressure Test

Pressure 30.6 psi
Result Passed



INTERLINK



Tested by

Name OSCAR MARTINEZ
Date 07-22-2025

Signature

Inspected by

Name JR. PERRY
Date 07-22-2025

Signature



Marine Safety Center Vapor Control System (VCS) Plan Review Information Sheet (PRIS)



Vessel Name	CCL 30 through CCL 33	Shipyard	C&C Marine & Repair, LLC
Official Number	1305871, 1305870, 1305869, 1305868	Hull Number	341 through 344

1. This sheet consolidates critical VCS parameters for MSC Staff Engineers and CG Field Inspectors dealing with Vapor Control Systems. CG Inspectors should verify the vessel's VCS design is consistent with the information listed in boxes 2, 6, 7 & 8 prior to updating the vapor control endorsement on the vessel's Certificate of Inspection. For cases where the information in the VCS PRIS does not reflect the vessel's design the CG Inspector should contact the MSC's Cargo Authority branch.

2. Tank Maximum Design Working Pressure	3.60 psig	Raised Trunk	☒
		Flush Deck	☐
3. Authorized Maximum Cargo Transfer Rate(s)	2,500 bbl/hr discharging 2,000 bbl/hr discharging		
4. Authorized Maximum Vapor-Air Mixture Density	0.379 lbm/ft ³		
5. Authorized VCS Categories	1 Through 7		
6. Cargoes with the highest vapor density and/or pressure drop:			
a. Cargo Name	Pentane (all isomers) [PTY]		
b. Cargo Name	Pentane (all isomers) [PTY]		

7. Pressure Vacuum Valve:		8. VCS Pipe Sizes:	
Manufacturer	ERL	Approx. Inside Diameter	
Size	EQUATE	Longitudinal Header (Inches)	8
CG Approval	162.017/169/2	Transverse Header (Inches)	8
Settings in psig:			
Pressure-side	3		
Vacuum-side	2		
Required Venting Capacity of Pressure-Side of P/V valve	8217 bbl/hr (air)		
Required Venting Capacity of Vacuum-Side of P/V valve	2000 bbl/hr (air)		

9. Tank Overfill Protection System (check appropriate box or boxes)			
a. High Level/Tank Overfill Alarm	☒	Type	ERL Level Alert
b. Overfill Control Shutdown	☐	Type	N/A
c. Spill Valve	☐	Type	N/A
d. Rupture Disk	☐	Type	N/A
		Meets ASTM F1271	Setting in psig N/A

10. Closed Gauging Verify the vessel has closed gauging that satisfies 46 CFR 39.2003 and 151.15-10(c).

11. Instructions/Guidelines for the OCMI:

11a. The Marine Safety Center's recommended COI endorsements can be found in the following approval letters:

11b. The MSC approval letters must be available at the OCMI's request.

11c. Verify isolation valve at the vapor connection flange is manually operable and designed in a way it is "clearly" open or closed.

11d. Verify the set-point of the overfill alarm system. It shall be no higher than 6 inches (0.5 feet) below the tank tops of cargo tanks #1-3 at Centerline.

11e. The tanks share a common vent header, which would allow mixing of various vapors and liquid cargoes. Note this configuration restricts the types of cargoes that can be carried simultaneously.

11f. The vapor collection piping must be electrically continuous and bonded to the hull as required by 46 CFR 39.2001(c).

Current VCS Approval Letter	C1-2002730 dated August 18, 2020	MSC Plan Reviewer	LT J. D. MacArthur
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CARGO TRANSFER PROCEDURES

CHEM CARRIERS L.L.C.

TRANSFER FROM BARGE TO DOCK

PARTS

1. **PRODUCTS TRANSFERRED**
2. **DESCRIPTION OF SYSTEM**
3. **PERSONS ON DUTY**
4. **PERSONS IN CHARGE**
5. **EMERGENCY SHUTDOWN**
6. **TOPPING OFF PROCEDURE**
7. **COMPLETION OF TRANSFER**
8. **REPORTING CARGO SPILLS**
9. **VESSEL CLOSURES**
10. **PRODUCT DATA**
11. **Vapor Control Procedures**
12. **Inert system**

Barge CCL 30

PARTS 1. PRODUCTS TRANSFERRED

33 CFR 155.750 (a) (1) (i)

This vessel is certificated for the carriage of grades "A" and lower Sub-Chapter (D) and (O) Products. It has also been certified to carry vapor products. Reference Certificate of Inspection.

PARTS 2. DESCRIPTION OF CARGO TRANSFER SYSTEM

33 CFR 155.750 (a) (2) (i) (ii)

The cargo transfer procedures apply to all Chem Carrier L.L.C. owned or leased tank barges. In most cases other than series built barges, the cargo piping arrangement is usually slightly different on every barge, and for this reason, the piping diagram must be studied before loading or discharging a barge. The basic concept for loading and discharging is fairly standard depending on the location of the pump.

A. (Reference the piping diagram for transfer system arrangement.)

B. PROCEDURES FOR THE CONTAINMENT SYSTEM

33 CFR 155.310 (a) (1) (iv)

33 CFR 155.750 (a) (2) (iii)

- 1). The containment pans are equipped with a drain for the removal of slops to shore facilities:

NEVER DRAIN THE CONTAINMENT TANKS ONTO THE DECK.

- 2). CCL 30 is equipped with a separate containment area for

the cargo trunk top and the forward deck area. Each containment area is equipped with drains and scupper plugs. Plugs should be installed prior to cargo transfer and removed after the cargo transfer is complete. PIC should notify Chem Carriers when containment areas need cleaning or if scupper plugs need replacing. **Never Drain Product captured in containment area overboard.**

PARTS 3. PERSONS ON DUTY DURING TRANSFER

33 CFR 155.750 (a) (3)

Number of persons required on duty during transfer operations:

- A. At no time during the transfer operation will be less than one responsible person on duty. The certified tankerman assigned shall be in charge and responsible for the safe transfer of cargo.

PARTS 4. PERSONS IN CHARGE

The tankerman (person in charge) is responsible for transferring cargo and carrying out related operations on board in an efficient, safe, and pollution free manner. The tankerman whether employed by the towboat, owner, operator, a shore tankerman service, or Chem Carriers L.L.C., shall comply with all Coast Guard, State and local regulations. Tankerman's responsibility shall include but not be limited to the following:

- A. To have on his/her person a valid merchant marine document endorsed as tankerman, certified to handle the grade of cargo to be transferred.
- B. Make a thorough inspection of the barge prior to the start of transfer operation.
- C. To have proper connection of the grounding cable.
- D. The vessel's moorings are adequate to hold during all expected conditions of surge, current, wind, tide, ect., and lines are long enough to allow for surge, tide, wind, changes in draft ect.
- E. Proper hose sizes, lengths, support, and connections.
- F. The condition of fire extinguishers and required number.
- G. The person in charge of transfer operations on the transferring vessel or facility and the person in charge of transferring operations on the receiving vessel or facility agree to begin the transfer operations.
- H. The transfer operation between tank barges and dock facilities should be lighted between sunset and sunrise to comply with the U. S. Coast Guard regulation pertaining to the displaying of lights on barges as required by Title 33.
- I. The PIC (PERSON IN CHARGE) will be responsible for the DOI (declaration of inspection) and DOS (declaration of security).
- J. Always maintain communications with dock or shore personnel

with an agreed upon approved system.

PARTS 5: EMERGENCY SHUTDOWN

33 CFR 155.750 (a) (6)

THE EMERGENCY SHUTDOWN IS LOCATED NEAR THE CENTER OF THE BARGE.

- A. In the event of an emergency, transfer operations can be stopped by pulling the remote shutdown cable.
- B. Familiarize yourself with its location and operation prior to transfer.

PARTS 6; TOPPING OFF PROCEDURES

33 CFR 155.750 (a) (7)

In the process of topping off, tanks should be loaded at different levels to top off one at a time. Extra care should be taken to avoid over pressuring the connections, and hoses by closing valves against the receiving line. Since barges and facilities vary in their systems, no standard for topping off exist, but the following should be considered:

- A. The closing of one tank increases the rate of flow to other tanks on the same line.
- B. Always consider temperature and cargo in accordance with the amount of expansion that should be allowed.
- C. Always maintain communications with dock or shore personnel.
- D. A set of dipstick overfill devices have been installed on the CCL 30. Dipsticks can be made operational by releasing the covers or caps. Dipsticks should be used as a visual aid for overfill protection.

PARTS 7: COMPLETION OF TRANSFER

33 CFR 155.750 (a) (8)

Upon the completion of the transfer all pipelines should be drained into cargo tanks. The header valve used during the operation should then be closed, sealed off with a blind flange and shore personnel should seal lines and hatches on vessel.

PARTS 8: REPORTING CARGO SPILLS

33 CFR 155.750 (a) (9)

Should an accidental discharge of product occur, you should consider the following:

- A. Locate the source of the spill and try to stop it, if possible, and safe to do so.
- B. Make an attempt to contain the product if possible.
- C. Notify the Coast Guard. The national Response Center at 1-800-424-9300.
- E. Notify Chem Carriers L.L.C. at (225) 642-0060
- F. If loading, transfer the cargo from the leaking tank to an adjacent tank or back to the dock if safe to do so.
- G. If discharging, pump the product from the leaking tank as quickly as possible if safe to do so.

***When reporting a spill, the tankerman should provide the following information:**

- A. Name (his or her)
- B. Name of Company: (employed by; (contracted by;
- C. Name of Barge.
- D. Spill Location
- E. Specify Product.
- F. Estimate Quantity of Spill
- G. Weather, Tide, Sea and Current Conditions.
- H. Cause of Spill.
- I. Action Being Taken to Contain and Stop Spill

PART 9

CLOSURES ON VESSELS

Upon completion of cargo transfer operations, all tank hatch covers, ullage covers, and gauging device covers shall be dogged down and secured. In addition, the vent drain valves, if installed, should be secured and left in the proper position. All drain valves should be closed, and drip pan covers, if installed, should be made up tight. Covers for void spaces, bow and stern compartments shall be secured at all times and checked for tightness. Closing devices on clean-out hatches and clean-out opening should be checked, especially when the barge is loaded.

PART 10

PRODUCT DATA

See specific MSDS sheets provided with these procedures.

In case of any other emergency, immediately shut down and notify the transferring facility, and Chem Carriers L.L.C. (225) 642-0060 24 Hour Line.

PART 11

VAPOR CONTROL PROCEDURES

This is a guide only and is not intended to replace experience, sound judgment, and a proper assessment of the task at hand.

The tankerman on duty is the acting Designated Person In Charge (PIC) and is responsible for cargo transfer operations and

carrying out related operations on barges.

1. Vapor Recovery Transfer Maximum Rate is 2300 BBLS/HR for subchapter "D" Cargoes and 2400 BBLS/Hr for subchapter "O" Cargoes.
- 1.1 Transfer rates, which exceed these maximums, must be approved by Chem Carriers.
- 1.2 Transfer rates for each cargo tank should not exceed the maximum transfer rate.

2. Pre-transfer Inspection For Vapor Recovery Operations

2.1 Follow the procedures outlined below in addition to the procedures utilized during normal transfers:

2.1.1 Wear personal protective equipment (PPE) as needed for the cargo in the barge when testing P/V and, hooking up hoses, or draining low points.

2.1.2 Ensure that a Certificate of Vapor Tightness is onboard and valid.

2.1.3 Close the low point drain on the port/starboard vapor header, if applicable.

2.1.4 Close the low point drain near the vent stack, if applicable.

2.1.5 Close valve to the vent riser if applicable.

2.1.7 Blinds used for the vapor control manifold should have a hole to accommodate the ½" stud located in the vapor header.

2.1.8 Each cargo tank is fitted with a liquid level gauge stick. Remove the cap, raise the stick, This stick can be monitored visually to avoid overfilling.

2.1.9 Ensure that the last one meter (3.3 feet) of vapor piping before the vapor connection is painted red/yellow/red.

2.1.10 The cross-header should be stenciled with the word "VAPOR" in black letters at least 2" high.

2.1.11 The vapor connection flange should be fixed with a 1" long by 1/2" diameter stud projecting outward from the face of the flange, midway between bolt holes.

2.1.12 The high level alarms/shutdowns are installed near the center of each cargo tank. Dock alarm/shutdown should be connected prior to loading, and plugs located near the forward end of the barge Port and Starboard should be labeled "ALARM/SHUTDOWN SENSOR." High level alarms are set to alarm at 90% of the cargo tanks capacity and Shut downs are set to shut transfer down at 95% of each tanks capacity.

2.1.13 Ensure that the P/V relief valve flame screen, if required, is in place and in good condition prior to testing.

2.1.14 Ensure that the facility has a Letter of Adequacy

endorsed as meeting the requirements of 33 CFR Subpart E.

3. Vapor Piping

3.1 The PIC checks the vapor piping diagram.

3.2 Characteristics of a vapor header:

3.2.1 The vapor collection piping system on tank barges is permanently installed and located as close as practical to the loading manifold. The piping system is electrically bonded to the hull and electrically continuous.

3.2.2 The last one meter (3.3 feet) of vapor piping prior to the valve before the vapor connection is painted red/yellow/red. The red bands are 4" wide and the yellow band is 32" wide.

3.2.3 The vapor header is stenciled with the word "VAPOR" in black letters at least 2" high.

3.2.4 The vapor connection flange is to be fixed with a 1" by 1/2" diameter stud projecting outward from the face of the flange. This stud is located at the top of the flange, midway between bolt holes.

3.2.5 When not in use, blank off the vapor headers using a blind flange with a bolt in every hole. Each blind flange used on the vapor piping has a hole drilled to accommodate the pin.

4. Inspection And Verification Of Vent Lines

4.1 The Person in Charge performs the following steps:

4.1.1 Checks the Certificate of Inspection on board the barge;

4.1.2 Locates polymerizing or inhibited cargoes in the section of the COI marked *Specific Hazardous Cargo Authority*;

4.1.3 Refers to the MSDS or Chemical Data Guide on board the vessel to determine what cargoes are subject to polymerization, or what cargoes are inhibited;

4.1.4 Locates the MSDS for the cargo and determines its toxicity and whether or not it is a polymerizing or inhibited cargo; and,

4.1.5 Notifies the Dispatcher and Field Supervisor when polymerization is suspected.

5. Any problems with the Vapor Control system must be reported immediately to the person in charge and Chem Carriers.

U.S. Department of
Homeland Security

United States
Coast Guard



Commandant
United States Coast Guard

2703 Martin Luther King Jr. Ave SE
Stop 7516
Washington, DC 20593-7516
Staff Symbol: CG-MER-4 (VRP)
Phone: (202) 372-1005
Fax: (202) 372-8376
Email: vrp@uscg.mil

16460
March 12, 2025

Chem Carriers, L.L.C.
C/O: FOREFRONT EMERGENCY MANAGEMENT, LP
ATTN: ALLIE MARTIN
1730 COTEAU ROAD
HOUMA, LA 70364

Dear Sir or Madam:

Your Vessel Response Plan (Control Number 56041), submitted to meet the requirements of Title 33, Code of Federal Regulations (CFR), Part 155, Subparts D and I, is **approved**. Approval will remain valid until **March 21, 2030**.

The CCL 30 (1305871) is authorized to operate only in the ports or geographic areas indicated in the Captain of the Port zones listed below. If carrying oil as cargo, the vessel is prohibited from handling, storing, transporting, transferring, or lightering oil unless it is operating in full compliance with this plan. Compliance includes ensuring that required resources have been identified and planned for or are in place and available through contract or other approved means. If applicable to your routes, this includes the dispersant and aerial observation requirements of 33 CFR 155.1050.

You are reminded that your chosen salvage and marine firefighting resource provider may have submitted waivers from meeting one or more of the specified response times in accordance with 33 CFR 155.4055. If so, this may be rescinded by the U.S. Coast Guard if the appropriate response resources are not available when the approved waiver expires. You shall continue to assess the adequacy of your chosen salvors and firefighters as required by 33 CFR 155.4050.

The vessel must keep a copy of this approval letter onboard in addition to the minimum sections of the plan as required by 33 CFR 155.1030. In accordance with 33 CFR 155.1070, you are required to review your plan annually and submit plan amendments for approval. As per 33 CFR 155.1070(b), the entire plan must be resubmitted for a comprehensive review and approval six (6) months prior to the expiration date.

APPROVED CAPTAIN OF THE PORT ZONES

CORPUS CHRISTI
HOUMA
HOUSTON-GALVESTON

LOWER MISSISSIPPI RIVER OHIO VALLEY
(MEMPHIS) PORT ARTHUR AND LAKE
MOBILE CHARLES
NEW ORLEANS

UPPER MISSISSIPPI RIVER
(ST. LOUIS)

Sincerely,



CHARRON MCCOMBS

Lieutenant Commander

Acting Chief, Domestic Preparedness & Planning Division

U.S. Coast Guard

By direction

U.S. Department of
Homeland Security

United States
Coast Guard



Commanding Officer
United States Coast Guard
Marine Safety Center

US Coast Guard Stop 7430
2703 Martin Luther King Jr. Ave. SE
Washington, DC 20593-7430
Staff Symbol: MSC-5
Phone: (202) 795-6729
Email: securityplaninfo@uscg.mil

16710
VS-326893
December 3, 2024

Chem Carriers, LLC
Attn: Robert Banta
1237 Hwy 75
Sunshine, LA 70780
robert@chemcarriers.com

Subj: CHEM CARRIERS, LLC VESSELS
VESSEL SECURITY PLAN APPROVAL WITH AMENDMENTS

Ref: (a) Your correspondence dated November 6, 2024
(b) Title 33 Code of Federal Regulations (CFR) Part 104
(c) MSC Vessel Security Plan Approval letter dated October 16, 2024

Dear Mr. Banta:

We have conducted a review of the Vessel Security Plan (VSP) submitted with reference (a) in accordance with reference (b) and it is **"Approved."**

Your vessel must operate in compliance with this approved VSP and the requirements contained in reference (b). You are reminded to immediately report any deviation from this approved plan to the local Captain of the Port (COTP)/Officer in Charge, Marine Inspection (OCMI).

This approval will remain valid until five years from the date of reference (c) unless rescinded in writing by the local COTP/OCMI. You must review your plan annually and submit any amendments to this office for approval. Please ensure that a copy of the VSP is maintained on board the vessel if manned, or, if unmanned, at a suitable secure location so that it is readily available during an emergency or security incident. You shall make available to the Coast Guard, upon request, this letter, the VSP and any information related to the implementation of the VSP. Our Case Number for this plan is 326893. Please ensure that all future correspondence includes this Case Number.

Sincerely,

K. C. WILLIAMS
Lieutenant Commander, U.S. Coast Guard
Chief, Vessel Security Division
By direction

Enclosures: (1) List of Vessel Security Plan Amendments
(2) List of Vessels Covered

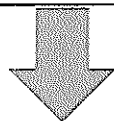
List of Vessels Covered

<u>Vessel Name</u>	<u>Official Number (O.N.)</u>
CCL-1	518612
CCL 2	510107
CCL-3	296363
CCL 4	512519
CCL-5	512520
CCL-6	530996
CCL7	551980
CCL 8	551982
CCL 9	551983
CCL 10	551979
CCL 11	551976
CCL 14	1164451
CCL 15	1164452
CCL 16	1164666
CCL 17	1166179
CCL 18	1168981
CCL 19	1168980
CCL 20	1191598
CCL 21	1191599
CCL 22	1191600
CCL 23	1191601
CCL 24	1196547
CCL 25	1196548
CCL 26	1203816
CCL 27	1203817
CCL 28	1212828
CCL 29	1212829
CCL 30	1305871
CCL 31	1305870
CCL 32	1305869
CCL 33	1305868
CCL 401	1216671
CCL 402	1219910
CCL 403	1231311
CCL 404	1231312
CCL 405	1236867
CCL 406	1236866
CCL 407	1246320
CCL 408	1246097
CCL 409	1246098
CCL 410	1255906
CCL 411	1255907
CCL 414-L	1262941
CCL 415-T	1262942

<u>Vessel Name</u>	<u>Official Number (O.N.)</u>
CCL 416-T	1264691
CCL 417 T	1298307
CCL 418-L	1306896
CCL 419-L	1306897
CCL 420-T	1348560
CCL 421-T	CG1843359
CCL 3202	1089031
HFL 413	1237482
HFL 415	1237483
HFL 435	1236563
HFL 605	1237484

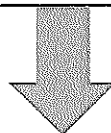
VESSEL INCIDENT / ACCIDENT NOTIFICATION CHART

Incidents that involve injury or illness, spill / pollution or a probable discharge, significant equipment failure, property damage, cargo related issues, service delays or any accident involving a Chem Carriers Towing, LLC vessel or crewmember shall be immediately called into the Chem Carriers Towing, LLC 24-hour Emergency Hotline at 225-642-0060



Master Standing the Watch

Once the situation has been stabilized and all safety issues have been addressed, immediately contact the Chem Carriers Towing, LLC Emergency Hotline (225-642-0060)
Any serious marine incident, or any incident that has the potential to become a serious marine incident, alcohol testing shall be conducted on all involved crewmembers within 2 hours, whether onboard the vessel or at a testing facility.



NATIONAL Response Center

1-800-424-8802

or

1-202-267-2675

MADANTORY for all pollution incidents on CCT equipment

Chem Carriers Towing, LLC Emergency Hotline



Qualified Individual (QI)

225-642-0060

State Notifications

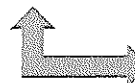
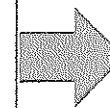
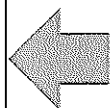
Louisiana 225-925-6595
Mississippi 601-987-1212
Texas 409-924-5400

Oil Spill Removal Organization Customer Internal

Reference Emergency Response Guidelines for
a Complete List of Required Notifications

USCG COTP ZONES

Baton Rouge 225-298-5400
New Orleans 504-365-2200
Morgan City 985-380-5320
Lake Charles 337-721-5741



**Independent Vessel
Calibration**

Ship & Barge Calibrators

**BARGE "CCL 30"
HULL NO. C&C Marine 341**

**TANK NO. 1
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

GAUGE HEIGHT: 16' 3 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	16	0	9,960	0	20,263	0	30,552	0	40,808	0	51,099	0	61,392	0	71,685	0	81,978	0	92,272
1/4	198	1/4	10,175	1/4	20,477	1/4	30,766	1/4	41,022	1/4	51,313	1/4	61,606	1/4	71,899	1/4	82,192	1/4	92,486
1/2	381	1/2	10,390	1/2	20,691	1/2	30,979	1/2	41,236	1/2	51,528	1/2	61,820	1/2	72,113	1/2	82,407	1/2	92,701
3/4	567	3/4	10,604	3/4	20,906	3/4	31,192	3/4	41,451	3/4	51,742	3/4	62,035	3/4	72,328	3/4	82,621	3/4	92,915
1	754	1	10,819	1	21,120	1	31,406	1	41,665	1	51,956	1	62,249	1	72,542	1	82,836	1	93,129
1/4	943	1/4	11,034	1/4	21,335	1/4	31,619	1/4	41,879	1/4	52,171	1/4	62,464	1/4	72,757	1/4	83,050	1/4	93,344
1/2	1,134	1/2	11,249	1/2	21,549	1/2	31,833	1/2	42,094	1/2	52,385	1/2	62,678	1/2	72,971	1/2	83,265	1/2	93,558
3/4	1,326	3/4	11,464	3/4	21,763	3/4	32,046	3/4	42,308	3/4	52,600	3/4	62,893	3/4	73,186	3/4	83,479	3/4	93,773
2	1,520	2	11,679	2	21,978	2	32,260	2	42,523	2	52,814	2	63,107	2	73,400	2	83,694	2	93,987
1/4	1,715	1/4	11,894	1/4	22,192	1/4	32,473	1/4	42,737	1/4	53,029	1/4	63,322	1/4	73,614	1/4	83,908	1/4	94,202
1/2	1,911	1/2	12,109	1/2	22,406	1/2	32,687	1/2	42,951	1/2	53,243	1/2	63,536	1/2	73,829	1/2	84,122	1/2	94,416
3/4	2,109	3/4	12,323	3/4	22,621	3/4	32,900	3/4	43,166	3/4	53,457	3/4	63,750	3/4	74,043	3/4	84,337	3/4	94,631
3	2,308	3	12,538	3	22,835	3	33,114	3	43,380	3	53,672	3	63,965	3	74,258	3	84,551	3	94,845
1/4	2,509	1/4	12,753	1/4	23,049	1/4	33,327	1/4	43,594	1/4	53,886	1/4	64,179	1/4	74,472	1/4	84,766	1/4	95,059
1/2	2,711	1/2	12,968	1/2	23,264	1/2	33,541	1/2	43,809	1/2	54,101	1/2	64,394	1/2	74,687	1/2	84,980	1/2	95,274
3/4	2,914	3/4	13,183	3/4	23,478	3/4	33,754	3/4	44,023	3/4	54,315	3/4	64,608	3/4	74,901	3/4	85,195	3/4	95,488
4	3,119	4	13,398	4	23,693	4	33,968	4	44,237	4	54,530	4	64,823	4	75,115	4	85,409	4	95,703
1/4	3,325	1/4	13,613	1/4	23,907	1/4	34,181	1/4	44,452	1/4	54,744	1/4	65,037	1/4	75,330	1/4	85,624	1/4	95,917
1/2	3,533	1/2	13,827	1/2	24,121	1/2	34,395	1/2	44,666	1/2	54,959	1/2	65,251	1/2	75,544	1/2	85,838	1/2	96,132
3/4	3,741	3/4	14,042	3/4	24,336	3/4	34,608	3/4	44,880	3/4	55,173	3/4	65,466	3/4	75,759	3/4	86,053	3/4	96,346
5	3,951	5	14,257	5	24,550	5	34,822	5	45,095	5	55,387	5	65,680	5	75,973	5	86,267	5	96,561
1/4	4,162	1/4	14,472	1/4	24,764	1/4	35,035	1/4	45,309	1/4	55,602	1/4	65,895	1/4	76,188	1/4	86,481	1/4	96,775
1/2	4,375	1/2	14,687	1/2	24,979	1/2	35,249	1/2	45,524	1/2	55,816	1/2	66,109	1/2	76,402	1/2	86,696	1/2	96,990
3/4	4,588	3/4	14,902	3/4	25,193	3/4	35,462	3/4	45,738	3/4	56,031	3/4	66,324	3/4	76,617	3/4	86,910	3/4	97,204
6	4,803	6	15,117	6	25,407	6	35,676	6	45,952	6	56,245	6	66,538	6	76,831	6	87,125	6	97,418
1/4	5,018	1/4	15,331	1/4	25,622	1/4	35,889	1/4	46,167	1/4	56,460	1/4	66,753	1/4	77,046	1/4	87,339	1/4	97,633
1/2	5,233	1/2	15,545	1/2	25,836	1/2	36,103	1/2	46,381	1/2	56,674	1/2	66,967	1/2	77,260	1/2	87,554	1/2	97,847
3/4	5,448	3/4	15,760	3/4	26,051	3/4	36,316	3/4	46,596	3/4	56,888	3/4	67,181	3/4	77,474	3/4	87,768	3/4	98,062
7	5,663	7	15,974	7	26,265	7	36,530	7	46,810	7	57,103	7	67,396	7	77,689	7	87,983	7	98,276
1/4	5,877	1/4	16,189	1/4	26,479	1/4	36,743	1/4	47,024	1/4	57,317	1/4	67,610	1/4	77,903	1/4	88,197	1/4	98,491
1/2	6,092	1/2	16,403	1/2	26,694	1/2	36,957	1/2	47,239	1/2	57,532	1/2	67,825	1/2	78,118	1/2	88,411	1/2	98,705
3/4	6,307	3/4	16,617	3/4	26,908	3/4	37,170	3/4	47,453	3/4	57,746	3/4	68,039	3/4	78,332	3/4	88,626	3/4	98,920
8	6,522	8	16,832	8	27,122	8	37,384	8	47,668	8	57,961	8	68,254	8	78,547	8	88,840	8	99,134
1/4	6,737	1/4	17,046	1/4	27,337	1/4	37,597	1/4	47,882	1/4	58,175	1/4	68,468	1/4	78,761	1/4	89,055	1/4	99,349
1/2	6,952	1/2	17,261	1/2	27,551	1/2	37,811	1/2	48,097	1/2	58,390	1/2	68,682	1/2	78,976	1/2	89,269	1/2	99,563
3/4	7,167	3/4	17,475	3/4	27,765	3/4	38,025	3/4	48,311	3/4	58,604	3/4	68,897	3/4	79,190	3/4	89,484	3/4	99,777
9	7,382	9	17,690	9	27,980	9	38,238	9	48,525	9	58,818	9	69,111	9	79,405	9	89,698	9	99,992
1/4	7,596	1/4	17,904	1/4	28,194	1/4	38,452	1/4	48,740	1/4	59,033	1/4	69,326	1/4	79,619	1/4	89,913	1/4	100,206
1/2	7,811	1/2	18,118	1/2	28,408	1/2	38,666	1/2	48,954	1/2	59,247	1/2	69,540	1/2	79,833	1/2	90,127	1/2	100,421
3/4	8,026	3/4	18,333	3/4	28,623	3/4	38,879	3/4	49,169	3/4	59,462	3/4	69,755	3/4	80,048	3/4	90,342	3/4	100,635
10	8,241	10	18,547	10	28,837	10	39,093	10	49,383	10	59,676	10	69,969	10	80,262	10	90,556	10	100,850
1/4	8,456	1/4	18,762	1/4	29,052	1/4	39,307	1/4	49,598	1/4	59,891	1/4	70,183	1/4	80,477	1/4	90,770	1/4	101,064
1/2	8,671	1/2	18,976	1/2	29,266	1/2	39,521	1/2	49,812	1/2	60,105	1/2	70,398	1/2	80,691	1/2	90,985	1/2	101,279
3/4	8,886	3/4	19,190	3/4	29,480	3/4	39,736	3/4	50,027	3/4	60,319	3/4	70,612	3/4	80,906	3/4	91,199	3/4	101,493
11	9,100	11	19,405	11	29,695	11	39,950	11	50,241	11	60,534	11	70,827	11	81,120	11	91,414	11	101,707
1/4	9,315	1/4	19,619	1/4	29,909	1/4	40,165	1/4	50,455	1/4	60,748	1/4	71,041	1/4	81,335	1/4	91,628	1/4	101,922
1/2	9,530	1/2	19,834	1/2	30,123	1/2	40,379	1/2	50,670	1/2	60,963	1/2	71,256	1/2	81,549	1/2	91,843	1/2	102,136
3/4	9,745	3/4	20,048	3/4	30,338	3/4	40,593	3/4	50,884	3/4	61,177	3/4	71,470	3/4	81,763	3/4	92,057	3/4	102,351

NOTE: BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

NOTE: GAUGE POINT: TO TOP LIP OF 2" DIAMETER MMC BALL VALVE,
LOCATED NEAR GEOMETRIC CENTER; NO TRIM CORRECTION REQUIRED

NOTE: CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT CENTERLINE.

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES
OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED 7/15/2020 BY: WHF/TFW
DATE COMPUTED: 7/21/2020 BY: WHF
DATE ISSUED: 8/03/2020

IVC MARINE



Independent Vessel
Calibration

Ship & Barge Calibrators

BARGE "CCL 30"
HULL NO. C&C Marine 341

TANK NO. 1
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

GAUGE HEIGHT: 16' 3 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	102,565	0	112,651	0	121,685	0	130,720	0	139,754	0	148,504	0		0		0		0	
1/4	102,780	1/4	112,839	1/4	121,873	1/4	130,908	1/4	139,942	1/4	148,598	1/4		1/4		1/4		1/4	
1/2	102,994	1/2	113,027	1/2	122,062	1/2	131,096	1/2	140,130	1/2	148,679	1/2		1/2		1/2		1/2	
3/4	103,209	3/4	113,216	3/4	122,250	3/4	131,284	3/4	140,318	3/4	148,746	3/4		3/4		3/4		3/4	
1	103,423	1	113,404	1	122,438	1	131,472	1	140,506	1	148,800	1		1		1		1	
1/4	103,638	1/4	113,592	1/4	122,626	1/4	131,661	1/4	140,694	1/4	148,840	1/4		1/4		1/4		1/4	
1/2	103,852	1/2	113,780	1/2	122,815	1/2	131,849	1/2	140,883	1/2	148,867	1/2		1/2		1/2		1/2	
3/4	104,066	3/4	113,969	3/4	123,003	3/4	132,037	3/4	141,071	3/4	148,880	3/4		3/4		3/4		3/4	
2	104,281	2	114,157	2	123,191	2	132,225	2	141,259	2	148,887	2		2		2		2	
1/4	104,495	1/4	114,345	1/4	123,379	1/4	132,413	1/4	141,447	1/4		1/4		1/4		1/4		1/4	
1/2	104,710	1/2	114,533	1/2	123,567	1/2	132,602	1/2	141,635	1/2		1/2		1/2		1/2		1/2	
3/4	104,924	3/4	114,721	3/4	123,756	3/4	132,790	3/4	141,824	3/4		3/4		3/4		3/4		3/4	
3	105,139	3	114,910	3	123,944	3	132,978	3	142,012	3		3		3		3		3	
1/4	105,353	1/4	115,098	1/4	124,132	1/4	133,166	1/4	142,200	1/4		1/4		1/4		1/4		1/4	
1/2	105,568	1/2	115,286	1/2	124,320	1/2	133,355	1/2	142,388	1/2		1/2		1/2		1/2		1/2	
3/4	105,782	3/4	115,474	3/4	124,508	3/4	133,543	3/4	142,576	3/4		3/4		3/4		3/4		3/4	
4	105,997	4	115,662	4	124,697	4	133,731	4	142,764	4		4		4		4		4	
1/4	106,211	1/4	115,851	1/4	124,885	1/4	133,919	1/4	142,953	1/4		1/4		1/4		1/4		1/4	
1/2	106,425	1/2	116,039	1/2	125,073	1/2	134,107	1/2	143,141	1/2		1/2		1/2		1/2		1/2	
3/4	106,640	3/4	116,227	3/4	125,261	3/4	134,296	3/4	143,329	3/4		3/4		3/4		3/4		3/4	
5	106,854	5	116,415	5	125,450	5	134,484	5	143,517	5		5		5		5		5	
1/4	107,069	1/4	116,603	1/4	125,638	1/4	134,672	1/4	143,705	1/4		1/4		1/4		1/4		1/4	
1/2	107,283	1/2	116,792	1/2	125,826	1/2	134,860	1/2	143,894	1/2		1/2		1/2		1/2		1/2	
3/4	107,498	3/4	116,980	3/4	126,014	3/4	135,048	3/4	144,082	3/4		3/4		3/4		3/4		3/4	
6	107,712	6	117,168	6	126,202	6	135,237	6	144,270	6		6		6		6		6	
1/4	107,927	1/4	117,356	1/4	126,391	1/4	135,425	1/4	144,458	1/4		1/4		1/4		1/4		1/4	
1/2	108,141	1/2	117,545	1/2	126,579	1/2	135,613	1/2	144,646	1/2		1/2		1/2		1/2		1/2	
3/4	108,355	3/4	117,733	3/4	126,767	3/4	135,801	3/4	144,834	3/4		3/4		3/4		3/4		3/4	
7	108,570	7	117,921	7	126,955	7	135,990	7	145,023	7		7		7		7		7	
1/4	108,784	1/4	118,109	1/4	127,143	1/4	136,178	1/4	145,211	1/4		1/4		1/4		1/4		1/4	
1/2	108,999	1/2	118,297	1/2	127,332	1/2	136,366	1/2	145,399	1/2		1/2		1/2		1/2		1/2	
3/4	109,213	3/4	118,486	3/4	127,520	3/4	136,554	3/4	145,587	3/4		3/4		3/4		3/4		3/4	
8	109,428	8	118,674	8	127,708	8	136,742	8	145,775	8		8		8		8		8	
1/4	109,642	1/4	118,862	1/4	127,896	1/4	136,931	1/4	145,964	1/4		1/4		1/4		1/4		1/4	
1/2	109,857	1/2	119,050	1/2	128,085	1/2	137,119	1/2	146,152	1/2		1/2		1/2		1/2		1/2	
3/4	110,071	3/4	119,238	3/4	128,273	3/4	137,307	3/4	146,340	3/4		3/4		3/4		3/4		3/4	
9	110,286	9	119,427	9	128,461	9	137,495	9	146,528	9		9		9		9		9	
1/4	110,492	1/4	119,615	1/4	128,649	1/4	137,683	1/4	146,716	1/4		1/4		1/4		1/4		1/4	
1/2	110,698	1/2	119,803	1/2	128,837	1/2	137,872	1/2	146,904	1/2		1/2		1/2		1/2		1/2	
3/4	110,904	3/4	119,991	3/4	129,026	3/4	138,060	3/4	147,093	3/4		3/4		3/4		3/4		3/4	
10	111,110	10	120,180	10	129,214	10	138,248	10	147,281	10		10		10		10		10	
1/4	111,307	1/4	120,368	1/4	129,402	1/4	138,436	1/4	147,469	1/4		1/4		1/4		1/4		1/4	
1/2	111,504	1/2	120,556	1/2	129,590	1/2	138,624	1/2	147,657	1/2		1/2		1/2		1/2		1/2	
3/4	111,701	3/4	120,744	3/4	129,778	3/4	138,813	3/4	147,832	3/4		3/4		3/4		3/4		3/4	
11	111,898	11	120,932	11	129,967	11	139,001	11	147,993	11		11		11		11		11	
1/4	112,086	1/4	121,121	1/4	130,155	1/4	139,189	1/4	148,141	1/4		1/4		1/4		1/4		1/4	
1/2	112,275	1/2	121,309	1/2	130,343	1/2	139,377	1/2	148,275	1/2		1/2		1/2		1/2		1/2	
3/4	112,463	3/4	121,497	3/4	130,531	3/4	139,565	3/4	148,396	3/4		3/4		3/4		3/4		3/4	

NOTE: BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

NOTE: GAUGE POINT: TO TOP LIP OF 2" DIAMETER MMC BALL VALVE,
LOCATED NEAR GEOMETRIC CENTER; NO TRIM CORRECTION REQUIRED

NOTE: CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT CENTERLINE.

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES
OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED 7/15/2020 BY: WHF/ITFC
DATE COMPUTED: 7/21/2020 BY: WHF
DATE ISSUED: 8/03/2020

IVC MARINE

**Independent Vessel
Calibration**

Ship & Barge Calibrators

**BARGE "CCL 30"
HULL NO. C&C Marine 341**

**TANK NO. 2
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

GAUGE HEIGHT: 16' 4 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	16	0	11,565	0	23,160	0	34,754	0	46,305	0	57,900	0	69,496	0	81,092	0	92,688	0	104,284
1/4	251	1/4	11,807	1/4	23,402	1/4	34,995	1/4	46,547	1/4	58,142	1/4	69,738	1/4	81,334	1/4	92,930	1/4	104,526
1/2	486	1/2	12,048	1/2	23,643	1/2	35,235	1/2	46,788	1/2	58,383	1/2	69,979	1/2	81,575	1/2	93,171	1/2	104,767
3/4	723	3/4	12,290	3/4	23,885	3/4	35,475	3/4	47,030	3/4	58,625	3/4	70,221	3/4	81,817	3/4	93,413	3/4	105,009
1	961	1	12,531	1	24,127	1	35,716	1	47,271	1	58,866	1	70,462	1	82,058	1	93,654	1	105,250
1/4	1,198	1/4	12,773	1/4	24,368	1/4	35,956	1/4	47,513	1/4	59,108	1/4	70,704	1/4	82,300	1/4	93,896	1/4	105,492
1/2	1,437	1/2	13,015	1/2	24,610	1/2	36,197	1/2	47,755	1/2	59,350	1/2	70,946	1/2	82,542	1/2	94,138	1/2	105,734
3/4	1,676	3/4	13,256	3/4	24,851	3/4	36,437	3/4	47,996	3/4	59,591	3/4	71,187	3/4	82,783	3/4	94,379	3/4	105,975
2	1,915	2	13,498	2	25,093	2	36,678	2	48,238	2	59,833	2	71,429	2	83,025	2	94,621	2	106,217
1/4	2,154	1/4	13,739	1/4	25,334	1/4	36,918	1/4	48,479	1/4	60,074	1/4	71,670	1/4	83,266	1/4	94,862	1/4	106,458
1/2	2,394	1/2	13,981	1/2	25,576	1/2	37,159	1/2	48,721	1/2	60,316	1/2	71,912	1/2	83,508	1/2	95,104	1/2	106,700
3/4	2,634	3/4	14,222	3/4	25,817	3/4	37,399	3/4	48,962	3/4	60,558	3/4	72,154	3/4	83,750	3/4	95,346	3/4	106,942
3	2,874	3	14,464	3	26,059	3	37,639	3	49,204	3	60,799	3	72,395	3	83,991	3	95,587	3	107,183
1/4	3,115	1/4	14,705	1/4	26,300	1/4	37,880	1/4	49,445	1/4	61,041	1/4	72,637	1/4	84,233	1/4	95,829	1/4	107,425
1/2	3,356	1/2	14,947	1/2	26,542	1/2	38,120	1/2	49,687	1/2	61,282	1/2	72,878	1/2	84,474	1/2	96,070	1/2	107,666
3/4	3,596	3/4	15,188	3/4	26,784	3/4	38,361	3/4	49,928	3/4	61,524	3/4	73,120	3/4	84,716	3/4	96,312	3/4	107,908
4	3,837	4	15,430	4	27,025	4	38,601	4	50,170	4	61,765	4	73,361	4	84,957	4	96,553	4	108,149
1/4	4,078	1/4	15,671	1/4	27,267	1/4	38,842	1/4	50,411	1/4	62,007	1/4	73,603	1/4	85,199	1/4	96,795	1/4	108,391
1/2	4,320	1/2	15,913	1/2	27,508	1/2	39,082	1/2	50,653	1/2	62,249	1/2	73,845	1/2	85,441	1/2	97,037	1/2	108,633
3/4	4,561	3/4	16,154	3/4	27,750	3/4	39,323	3/4	50,894	3/4	62,490	3/4	74,086	3/4	85,682	3/4	97,278	3/4	108,874
5	4,802	5	16,396	5	27,991	5	39,563	5	51,136	5	62,732	5	74,328	5	85,924	5	97,520	5	109,116
1/4	5,044	1/4	16,638	1/4	28,233	1/4	39,804	1/4	51,378	1/4	62,973	1/4	74,569	1/4	86,165	1/4	97,761	1/4	109,357
1/2	5,285	1/2	16,879	1/2	28,474	1/2	40,044	1/2	51,619	1/2	63,215	1/2	74,811	1/2	86,407	1/2	98,003	1/2	109,599
3/4	5,527	3/4	17,121	3/4	28,716	3/4	40,284	3/4	51,861	3/4	63,457	3/4	75,053	3/4	86,649	3/4	98,245	3/4	109,841
6	5,768	6	17,362	6	28,957	6	40,525	6	52,102	6	63,698	6	75,294	6	86,890	6	98,486	6	110,082
1/4	6,010	1/4	17,604	1/4	29,199	1/4	40,765	1/4	52,344	1/4	63,940	1/4	75,536	1/4	87,132	1/4	98,728	1/4	110,324
1/2	6,252	1/2	17,845	1/2	29,440	1/2	41,006	1/2	52,585	1/2	64,181	1/2	75,777	1/2	87,373	1/2	98,969	1/2	110,565
3/4	6,493	3/4	18,087	3/4	29,682	3/4	41,246	3/4	52,827	3/4	64,423	3/4	76,019	3/4	87,615	3/4	99,211	3/4	110,807
7	6,735	7	18,328	7	29,923	7	41,487	7	53,068	7	64,664	7	76,260	7	87,856	7	99,452	7	111,048
1/4	6,976	1/4	18,570	1/4	30,165	1/4	41,727	1/4	53,310	1/4	64,906	1/4	76,502	1/4	88,098	1/4	99,694	1/4	111,290
1/2	7,218	1/2	18,812	1/2	30,407	1/2	41,968	1/2	53,552	1/2	65,148	1/2	76,744	1/2	88,340	1/2	99,936	1/2	111,532
3/4	7,459	3/4	19,053	3/4	30,648	3/4	42,208	3/4	53,793	3/4	65,389	3/4	76,985	3/4	88,581	3/4	100,177	3/4	111,773
8	7,701	8	19,295	8	30,890	8	42,449	8	54,035	8	65,631	8	77,227	8	88,823	8	100,419	8	112,015
1/4	7,942	1/4	19,536	1/4	31,131	1/4	42,689	1/4	54,276	1/4	65,872	1/4	77,468	1/4	89,064	1/4	100,660	1/4	112,256
1/2	8,184	1/2	19,778	1/2	31,373	1/2	42,930	1/2	54,518	1/2	66,114	1/2	77,710	1/2	89,306	1/2	100,902	1/2	112,498
3/4	8,425	3/4	20,020	3/4	31,614	3/4	43,170	3/4	54,760	3/4	66,356	3/4	77,952	3/4	89,548	3/4	101,144	3/4	112,740
9	8,667	9	20,261	9	31,856	9	43,411	9	55,001	9	66,597	9	78,193	9	89,789	9	101,385	9	112,981
1/4	8,908	1/4	20,503	1/4	32,097	1/4	43,651	1/4	55,243	1/4	66,839	1/4	78,435	1/4	90,031	1/4	101,627	1/4	113,223
1/2	9,150	1/2	20,744	1/2	32,339	1/2	43,892	1/2	55,484	1/2	67,080	1/2	78,676	1/2	90,272	1/2	101,868	1/2	113,464
3/4	9,392	3/4	20,986	3/4	32,580	3/4	44,133	3/4	55,726	3/4	67,322	3/4	78,918	3/4	90,514	3/4	102,110	3/4	113,706
10	9,633	10	21,228	10	32,822	10	44,373	10	55,967	10	67,563	10	79,159	10	90,755	10	102,351	10	113,947
1/4	9,875	1/4	21,469	1/4	33,063	1/4	44,615	1/4	56,209	1/4	67,805	1/4	79,401	1/4	90,997	1/4	102,593	1/4	114,189
1/2	10,116	1/2	21,711	1/2	33,305	1/2	44,856	1/2	56,451	1/2	68,047	1/2	79,643	1/2	91,239	1/2	102,835	1/2	114,431
3/4	10,358	3/4	21,952	3/4	33,546	3/4	45,098	3/4	56,692	3/4	68,288	3/4	79,884	3/4	91,480	3/4	103,076	3/4	114,672
11	10,599	11	22,194	11	33,788	11	45,339	11	56,934	11	68,530	11	80,126	11	91,722	11	103,318	11	114,914
1/4	10,841	1/4	22,435	1/4	34,029	1/4	45,581	1/4	57,175	1/4	68,771	1/4	80,367	1/4	91,963	1/4	103,559	1/4	115,155
1/2	11,082	1/2	22,677	1/2	34,271	1/2	45,822	1/2	57,417	1/2	69,013	1/2	80,609	1/2	92,205	1/2	103,801	1/2	115,397
3/4	11,324	3/4	22,919	3/4	34,513	3/4	46,064	3/4	57,659	3/4	69,255	3/4	80,851	3/4	92,447	3/4	104,043	3/4	115,639

NOTE: BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

NOTE: GAUGE POINT: TO TOP LIP OF 2" DIAMETER MMC BALL VALVE,
LOCATED NEAR GEOMETRIC CENTER; NO TRIM CORRECTION REQUIRED

NOTE: CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT CENTERLINE.

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES
OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED 7/15/2020 BY: WHF/TFG
DATE COMPUTED: 7/21/2020 BY: WHF
DATE ISSUED: 8/03/2020

IVC MARINE



**Independent Vessel
Calibration**

Ship & Barge Calibrators

**BARGE "CCL 30"
HULL NO. C&C Marine 341**

**TANK NO. 2
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

GAUGE HEIGHT: 16' 4 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	115,880	0	127,476	0	139,072	0	150,668	0	162,264	0	173,601	0		0		0		0	
1/4	116,122	1/4	127,718	1/4	139,314	1/4	150,910	1/4	162,506	1/4	173,739	1/4		1/4		1/4		1/4	
1/2	116,363	1/2	127,959	1/2	139,555	1/2	151,151	1/2	162,747	1/2	173,860	1/2		1/2		1/2		1/2	
3/4	116,605	3/4	128,201	3/4	139,797	3/4	151,393	3/4	162,989	3/4	173,963	3/4		3/4		3/4		3/4	
1	116,846	1	128,442	1	140,038	1	151,634	1	163,230	1	174,050	1		1		1		1	
1/4	117,088	1/4	128,684	1/4	140,280	1/4	151,876	1/4	163,472	1/4	174,119	1/4		1/4		1/4		1/4	
1/2	117,330	1/2	128,926	1/2	140,522	1/2	152,118	1/2	163,714	1/2	174,170	1/2		1/2		1/2		1/2	
3/4	117,571	3/4	129,167	3/4	140,763	3/4	152,359	3/4	163,955	3/4	174,205	3/4		3/4		3/4		3/4	
2	117,813	2	129,409	2	141,005	2	152,601	2	164,197	2	174,222	2		2		2		2	
1/4	118,054	1/4	129,650	1/4	141,246	1/4	152,842	1/4	164,438	1/4	174,231	1/4		1/4		1/4		1/4	
1/2	118,296	1/2	129,892	1/2	141,488	1/2	153,084	1/2	164,680	1/2		1/2		1/2		1/2		1/2	
3/4	118,538	3/4	130,134	3/4	141,730	3/4	153,326	3/4	164,922	3/4		3/4		3/4		3/4		3/4	
3	118,779	3	130,375	3	141,971	3	153,567	3	165,163	3		3		3		3		3	
1/4	119,021	1/4	130,617	1/4	142,213	1/4	153,809	1/4	165,405	1/4		1/4		1/4		1/4		1/4	
1/2	119,262	1/2	130,858	1/2	142,454	1/2	154,050	1/2	165,646	1/2		1/2		1/2		1/2		1/2	
3/4	119,504	3/4	131,100	3/4	142,696	3/4	154,292	3/4	165,888	3/4		3/4		3/4		3/4		3/4	
4	119,745	4	131,341	4	142,937	4	154,533	4	166,129	4		4		4		4		4	
1/4	119,987	1/4	131,583	1/4	143,179	1/4	154,775	1/4	166,371	1/4		1/4		1/4		1/4		1/4	
1/2	120,229	1/2	131,825	1/2	143,421	1/2	155,017	1/2	166,613	1/2		1/2		1/2		1/2		1/2	
3/4	120,470	3/4	132,066	3/4	143,662	3/4	155,258	3/4	166,854	3/4		3/4		3/4		3/4		3/4	
5	120,712	5	132,308	5	143,904	5	155,500	5	167,096	5		5		5		5		5	
1/4	120,953	1/4	132,549	1/4	144,145	1/4	155,741	1/4	167,337	1/4		1/4		1/4		1/4		1/4	
1/2	121,195	1/2	132,791	1/2	144,387	1/2	155,983	1/2	167,579	1/2		1/2		1/2		1/2		1/2	
3/4	121,437	3/4	133,033	3/4	144,629	3/4	156,225	3/4	167,821	3/4		3/4		3/4		3/4		3/4	
6	121,678	6	133,274	6	144,870	6	156,466	6	168,062	6		6		6		6		6	
1/4	121,920	1/4	133,516	1/4	145,112	1/4	156,708	1/4	168,304	1/4		1/4		1/4		1/4		1/4	
1/2	122,161	1/2	133,757	1/2	145,353	1/2	156,949	1/2	168,545	1/2		1/2		1/2		1/2		1/2	
3/4	122,403	3/4	133,999	3/4	145,595	3/4	157,191	3/4	168,787	3/4		3/4		3/4		3/4		3/4	
7	122,644	7	134,240	7	145,836	7	157,432	7	169,028	7		7		7		7		7	
1/4	122,886	1/4	134,482	1/4	146,078	1/4	157,674	1/4	169,270	1/4		1/4		1/4		1/4		1/4	
1/2	123,128	1/2	134,724	1/2	146,320	1/2	157,916	1/2	169,512	1/2		1/2		1/2		1/2		1/2	
3/4	123,369	3/4	134,965	3/4	146,561	3/4	158,157	3/4	169,753	3/4		3/4		3/4		3/4		3/4	
8	123,611	8	135,207	8	146,803	8	158,399	8	169,995	8		8		8		8		8	
1/4	123,852	1/4	135,448	1/4	147,044	1/4	158,640	1/4	170,236	1/4		1/4		1/4		1/4		1/4	
1/2	124,094	1/2	135,690	1/2	147,286	1/2	158,882	1/2	170,478	1/2		1/2		1/2		1/2		1/2	
3/4	124,336	3/4	135,932	3/4	147,528	3/4	159,124	3/4	170,720	3/4		3/4		3/4		3/4		3/4	
9	124,577	9	136,173	9	147,769	9	159,365	9	170,961	9		9		9		9		9	
1/4	124,819	1/4	136,415	1/4	148,011	1/4	159,607	1/4	171,203	1/4		1/4		1/4		1/4		1/4	
1/2	125,060	1/2	136,656	1/2	148,252	1/2	159,848	1/2	171,444	1/2		1/2		1/2		1/2		1/2	
3/4	125,302	3/4	136,898	3/4	148,494	3/4	160,090	3/4	171,686	3/4		3/4		3/4		3/4		3/4	
10	125,543	10	137,139	10	148,735	10	160,331	10	171,927	10		10		10		10		10	
1/4	125,785	1/4	137,381	1/4	148,977	1/4	160,573	1/4	172,169	1/4		1/4		1/4		1/4		1/4	
1/2	126,027	1/2	137,623	1/2	149,219	1/2	160,815	1/2	172,411	1/2		1/2		1/2		1/2		1/2	
3/4	126,268	3/4	137,864	3/4	149,460	3/4	161,056	3/4	172,652	3/4		3/4		3/4		3/4		3/4	
11	126,510	11	138,106	11	149,702	11	161,298	11	172,877	11		11		11		11		11	
1/4	126,751	1/4	138,347	1/4	149,943	1/4	161,539	1/4	173,084	1/4		1/4		1/4		1/4		1/4	
1/2	126,993	1/2	138,589	1/2	150,185	1/2	161,781	1/2	173,273	1/2		1/2		1/2		1/2		1/2	
3/4	127,235	3/4	138,831	3/4	150,427	3/4	162,023	3/4	173,446	3/4		3/4		3/4		3/4		3/4	

NOTE: BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

NOTE: GAUGE POINT: TO TOP LIP OF 2" DIAMETER MMC BALL VALVE,
LOCATED NEAR GEOMETRIC CENTER; NO TRIM CORRECTION REQUIRED

NOTE: CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT CENTERLINE.

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES
OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED 7/15/2020 BY: WHF/TFG
DATE COMPUTED: 7/21/2020 BY: WHF
DATE ISSUED: 8/03/2020

IVC MARINE



Independent Vessel
Calibration

Ship & Barge Calibrators

BARGE "CCL 30"
HULL NO. C&C Marine 341

TANK NO. 3
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

GAUGE HEIGHT: 16' 4 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	16	0	10,194	0	20,413	0	30,631	0	40,843	0	51,063	0	61,284	0	71,506	0	81,726	0	91,945
1/4	223	1/4	10,407	1/4	20,626	1/4	30,844	1/4	41,056	1/4	51,276	1/4	61,497	1/4	71,718	1/4	81,939	1/4	92,158
1/2	431	1/2	10,620	1/2	20,839	1/2	31,056	1/2	41,269	1/2	51,489	1/2	61,710	1/2	71,931	1/2	82,152	1/2	92,371
3/4	639	3/4	10,833	3/4	21,052	3/4	31,269	3/4	41,482	3/4	51,702	3/4	61,923	3/4	72,144	3/4	82,365	3/4	92,584
1	848	1	11,046	1	21,265	1	31,482	1	41,695	1	51,915	1	62,136	1	72,357	1	82,577	1	92,797
1/4	1,058	1/4	11,259	1/4	21,477	1/4	31,694	1/4	41,908	1/4	52,128	1/4	62,349	1/4	72,570	1/4	82,790	1/4	93,010
1/2	1,268	1/2	11,472	1/2	21,690	1/2	31,907	1/2	42,120	1/2	52,340	1/2	62,562	1/2	72,783	1/2	83,003	1/2	93,223
3/4	1,479	3/4	11,684	3/4	21,903	3/4	32,120	3/4	42,333	3/4	52,553	3/4	62,775	3/4	72,996	3/4	83,216	3/4	93,436
2	1,689	2	11,897	2	22,116	2	32,332	2	42,546	2	52,766	2	62,988	2	73,209	2	83,429	2	93,649
1/4	1,900	1/4	12,110	1/4	22,329	1/4	32,545	1/4	42,759	1/4	52,979	1/4	63,201	1/4	73,422	1/4	83,642	1/4	93,862
1/2	2,112	1/2	12,323	1/2	22,542	1/2	32,758	1/2	42,972	1/2	53,192	1/2	63,414	1/2	73,635	1/2	83,855	1/2	94,075
3/4	2,323	3/4	12,536	3/4	22,755	3/4	32,971	3/4	43,185	3/4	53,405	3/4	63,627	3/4	73,848	3/4	84,068	3/4	94,287
3	2,535	3	12,749	3	22,968	3	33,183	3	43,398	3	53,618	3	63,840	3	74,061	3	84,281	3	94,500
1/4	2,747	1/4	12,962	1/4	23,180	1/4	33,396	1/4	43,611	1/4	53,831	1/4	64,052	1/4	74,274	1/4	84,494	1/4	94,713
1/2	2,959	1/2	13,174	1/2	23,393	1/2	33,609	1/2	43,823	1/2	54,044	1/2	64,265	1/2	74,487	1/2	84,707	1/2	94,926
3/4	3,171	3/4	13,387	3/4	23,606	3/4	33,821	3/4	44,036	3/4	54,257	3/4	64,478	3/4	74,700	3/4	84,919	3/4	95,139
4	3,384	4	13,600	4	23,819	4	34,034	4	44,249	4	54,470	4	64,691	4	74,913	4	85,132	4	95,352
1/4	3,596	1/4	13,813	1/4	24,032	1/4	34,247	1/4	44,462	1/4	54,683	1/4	64,904	1/4	75,126	1/4	85,345	1/4	95,565
1/2	3,809	1/2	14,026	1/2	24,245	1/2	34,459	1/2	44,675	1/2	54,896	1/2	65,117	1/2	75,338	1/2	85,558	1/2	95,778
3/4	4,021	3/4	14,239	3/4	24,458	3/4	34,672	3/4	44,888	3/4	55,109	3/4	65,330	3/4	75,551	3/4	85,771	3/4	95,991
5	4,234	5	14,452	5	24,670	5	34,885	5	45,101	5	55,322	5	65,543	5	75,764	5	85,984	5	96,204
1/4	4,447	1/4	14,665	1/4	24,883	1/4	35,098	1/4	45,313	1/4	55,535	1/4	65,756	1/4	75,977	1/4	86,197	1/4	96,417
1/2	4,660	1/2	14,877	1/2	25,096	1/2	35,310	1/2	45,526	1/2	55,748	1/2	65,969	1/2	76,190	1/2	86,410	1/2	96,630
3/4	4,873	3/4	15,090	3/4	25,309	3/4	35,523	3/4	45,739	3/4	55,961	3/4	66,182	3/4	76,403	3/4	86,623	3/4	96,842
6	5,086	6	15,303	6	25,522	6	35,736	6	45,952	6	56,173	6	66,395	6	76,616	6	86,836	6	97,055
1/4	5,298	1/4	15,516	1/4	25,735	1/4	35,948	1/4	46,165	1/4	56,386	1/4	66,608	1/4	76,829	1/4	87,049	1/4	97,268
1/2	5,511	1/2	15,729	1/2	25,948	1/2	36,161	1/2	46,378	1/2	56,599	1/2	66,821	1/2	77,042	1/2	87,261	1/2	97,481
3/4	5,724	3/4	15,942	3/4	26,161	3/4	36,374	3/4	46,591	3/4	56,812	3/4	67,034	3/4	77,255	3/4	87,474	3/4	97,694
7	5,937	7	16,155	7	26,373	7	36,587	7	46,804	7	57,025	7	67,247	7	77,468	7	87,687	7	97,907
1/4	6,150	1/4	16,368	1/4	26,586	1/4	36,799	1/4	47,017	1/4	57,238	1/4	67,460	1/4	77,681	1/4	87,900	1/4	98,120
1/2	6,363	1/2	16,581	1/2	26,799	1/2	37,012	1/2	47,230	1/2	57,451	1/2	67,673	1/2	77,893	1/2	88,113	1/2	98,333
3/4	6,576	3/4	16,793	3/4	27,012	3/4	37,225	3/4	47,443	3/4	57,664	3/4	67,885	3/4	78,106	3/4	88,326	3/4	98,546
8	6,789	8	17,006	8	27,225	8	37,437	8	47,656	8	57,877	8	68,098	8	78,319	8	88,539	8	98,759
1/4	7,001	1/4	17,219	1/4	27,438	1/4	37,650	1/4	47,869	1/4	58,090	1/4	68,311	1/4	78,532	1/4	88,752	1/4	98,972
1/2	7,214	1/2	17,432	1/2	27,651	1/2	37,863	1/2	48,082	1/2	58,303	1/2	68,524	1/2	78,745	1/2	88,965	1/2	99,184
3/4	7,427	3/4	17,645	3/4	27,864	3/4	38,076	3/4	48,294	3/4	58,516	3/4	68,737	3/4	78,958	3/4	89,178	3/4	99,397
9	7,640	9	17,858	9	28,076	9	38,289	9	48,507	9	58,729	9	68,950	9	79,171	9	89,391	9	99,610
1/4	7,853	1/4	18,071	1/4	28,289	1/4	38,502	1/4	48,720	1/4	58,942	1/4	69,163	1/4	79,384	1/4	89,603	1/4	99,823
1/2	8,066	1/2	18,284	1/2	28,502	1/2	38,715	1/2	48,933	1/2	59,155	1/2	69,376	1/2	79,597	1/2	89,816	1/2	100,036
3/4	8,279	3/4	18,497	3/4	28,715	3/4	38,927	3/4	49,146	3/4	59,368	3/4	69,598	3/4	79,810	3/4	90,029	3/4	100,249
10	8,491	10	18,710	10	28,928	10	39,140	10	49,359	10	59,581	10	69,802	10	80,023	10	90,242	10	100,462
1/4	8,704	1/4	18,923	1/4	29,141	1/4	39,353	1/4	49,572	1/4	59,794	1/4	70,015	1/4	80,235	1/4	90,455	1/4	100,675
1/2	8,917	1/2	19,135	1/2	29,354	1/2	39,566	1/2	49,785	1/2	60,006	1/2	70,228	1/2	80,448	1/2	90,668	1/2	100,888
3/4	9,130	3/4	19,348	3/4	29,566	3/4	39,779	3/4	49,998	3/4	60,219	3/4	70,441	3/4	80,661	3/4	90,881	3/4	101,101
11	9,343	11	19,561	11	29,779	11	39,992	11	50,211	11	60,432	11	70,654	11	80,874	11	91,094	11	101,314
1/4	9,556	1/4	19,774	1/4	29,992	1/4	40,205	1/4	50,424	1/4	60,645	1/4	70,867	1/4	81,087	1/4	91,307	1/4	101,526
1/2	9,769	1/2	19,987	1/2	30,205	1/2	40,418	1/2	50,637	1/2	60,858	1/2	71,080	1/2	81,300	1/2	91,520	1/2	101,739
3/4	9,981	3/4	20,200	3/4	30,418	3/4	40,630	3/4	50,850	3/4	61,071	3/4	71,293	3/4	81,513	3/4	91,733	3/4	101,952

NOTE: BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

NOTE: GAUGE POINT: TO TOP LIP OF 2" DIAMETER MMC BALL VALVE,
LOCATED NEAR GEOMETRIC CENTER; NO TRIM CORRECTION REQUIRED

NOTE: CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT CENTERLINE.

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DATE STRAPPED 7/15/2020 BY: WHF/TFW
DATE COMPUTED: 7/21/2020 BY: WHF
DATE ISSUED: 8/03/2020

IVC MARINE



**Independent Vessel
Calibration**

Ship & Barge Calibrators

**BARGE "CCL 30"
HULL NO. C&C Marine 341**

**TANK NO. 3
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

GAUGE HEIGHT: 16' 4 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	102,165	0	112,385	0	122,605	0	132,824	0	143,044	0	153,035	0		0		0		0	
1/4	102,378	1/4	112,598	1/4	122,817	1/4	133,037	1/4	143,257	1/4	153,157	1/4		1/4		1/4		1/4	
1/2	102,591	1/2	112,811	1/2	123,030	1/2	133,250	1/2	143,470	1/2	153,263	1/2		1/2		1/2		1/2	
3/4	102,804	3/4	113,024	3/4	123,243	3/4	133,463	3/4	143,683	3/4	153,355	3/4		3/4		3/4		3/4	
1	103,017	1	113,236	1	123,456	1	133,676	1	143,896	1	153,431	1		1		1		1	
1/4	103,230	1/4	113,449	1/4	123,669	1/4	133,889	1/4	144,108	1/4	153,491	1/4		1/4		1/4		1/4	
1/2	103,443	1/2	113,662	1/2	123,882	1/2	134,102	1/2	144,321	1/2	153,537	1/2		1/2		1/2		1/2	
3/4	103,656	3/4	113,875	3/4	124,095	3/4	134,315	3/4	144,534	3/4	153,567	3/4		3/4		3/4		3/4	
2	103,868	2	114,088	2	124,308	2	134,528	2	144,747	2	153,583	2		2		2		2	
1/4	104,081	1/4	114,301	1/4	124,521	1/4	134,740	1/4	144,960	1/4	153,590	1/4		1/4		1/4		1/4	
1/2	104,294	1/2	114,514	1/2	124,734	1/2	134,953	1/2	145,173	1/2		1/2		1/2		1/2		1/2	
3/4	104,507	3/4	114,727	3/4	124,947	3/4	135,166	3/4	145,386	3/4		3/4		3/4		3/4		3/4	
3	104,720	3	114,940	3	125,159	3	135,379	3	145,599	3		3		3		3		3	
1/4	104,933	1/4	115,153	1/4	125,372	1/4	135,592	1/4	145,812	1/4		1/4		1/4		1/4		1/4	
1/2	105,146	1/2	115,366	1/2	125,585	1/2	135,805	1/2	146,025	1/2		1/2		1/2		1/2		1/2	
3/4	105,359	3/4	115,579	3/4	125,798	3/4	136,018	3/4	146,238	3/4		3/4		3/4		3/4		3/4	
4	105,572	4	115,791	4	126,011	4	136,231	4	146,450	4		4		4		4		4	
1/4	105,785	1/4	116,004	1/4	126,224	1/4	136,444	1/4	146,663	1/4		1/4		1/4		1/4		1/4	
1/2	105,998	1/2	116,217	1/2	126,437	1/2	136,657	1/2	146,876	1/2		1/2		1/2		1/2		1/2	
3/4	106,210	3/4	116,430	3/4	126,650	3/4	136,870	3/4	147,089	3/4		3/4		3/4		3/4		3/4	
5	106,423	5	116,643	5	126,863	5	137,082	5	147,302	5		5		5		5		5	
1/4	106,636	1/4	116,856	1/4	127,076	1/4	137,295	1/4	147,515	1/4		1/4		1/4		1/4		1/4	
1/2	106,849	1/2	117,069	1/2	127,289	1/2	137,508	1/2	147,728	1/2		1/2		1/2		1/2		1/2	
3/4	107,062	3/4	117,282	3/4	127,501	3/4	137,721	3/4	147,941	3/4		3/4		3/4		3/4		3/4	
6	107,275	6	117,495	6	127,714	6	137,934	6	148,154	6		6		6		6		6	
1/4	107,488	1/4	117,708	1/4	127,927	1/4	138,147	1/4	148,367	1/4		1/4		1/4		1/4		1/4	
1/2	107,701	1/2	117,921	1/2	128,140	1/2	138,360	1/2	148,580	1/2		1/2		1/2		1/2		1/2	
3/4	107,914	3/4	118,133	3/4	128,353	3/4	138,573	3/4	148,792	3/4		3/4		3/4		3/4		3/4	
7	108,127	7	118,346	7	128,566	7	138,786	7	149,005	7		7		7		7		7	
1/4	108,340	1/4	118,559	1/4	128,779	1/4	138,999	1/4	149,218	1/4		1/4		1/4		1/4		1/4	
1/2	108,552	1/2	118,772	1/2	128,992	1/2	139,212	1/2	149,431	1/2		1/2		1/2		1/2		1/2	
3/4	108,765	3/4	118,985	3/4	129,205	3/4	139,424	3/4	149,644	3/4		3/4		3/4		3/4		3/4	
8	108,978	8	119,198	8	129,418	8	139,637	8	149,857	8		8		8		8		8	
1/4	109,191	1/4	119,411	1/4	129,631	1/4	139,850	1/4	150,070	1/4		1/4		1/4		1/4		1/4	
1/2	109,404	1/2	119,624	1/2	129,843	1/2	140,063	1/2	150,283	1/2		1/2		1/2		1/2		1/2	
3/4	109,617	3/4	119,837	3/4	130,056	3/4	140,276	3/4	150,496	3/4		3/4		3/4		3/4		3/4	
9	109,830	9	120,050	9	130,269	9	140,489	9	150,709	9		9		9		9		9	
1/4	110,043	1/4	120,263	1/4	130,482	1/4	140,702	1/4	150,922	1/4		1/4		1/4		1/4		1/4	
1/2	110,256	1/2	120,475	1/2	130,695	1/2	140,915	1/2	151,135	1/2		1/2		1/2		1/2		1/2	
3/4	110,469	3/4	120,688	3/4	130,908	3/4	141,128	3/4	151,347	3/4		3/4		3/4		3/4		3/4	
10	110,682	10	120,901	10	131,121	10	141,341	10	151,560	10		10		10		10		10	
1/4	110,894	1/4	121,114	1/4	131,334	1/4	141,554	1/4	151,773	1/4		1/4		1/4		1/4		1/4	
1/2	111,107	1/2	121,327	1/2	131,547	1/2	141,766	1/2	151,986	1/2		1/2		1/2		1/2		1/2	
3/4	111,320	3/4	121,540	3/4	131,760	3/4	141,979	3/4	152,199	3/4		3/4		3/4		3/4		3/4	
11	111,533	11	121,753	11	131,973	11	142,192	11	152,397	11		11		11		11		11	
1/4	111,746	1/4	121,966	1/4	132,185	1/4	142,405	1/4	152,579	1/4		1/4		1/4		1/4		1/4	
1/2	111,959	1/2	122,179	1/2	132,398	1/2	142,618	1/2	152,747	1/2		1/2		1/2		1/2		1/2	
3/4	112,172	3/4	122,392	3/4	132,611	3/4	142,831	3/4	152,899	3/4		3/4		3/4		3/4		3/4	

NOTE: BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

NOTE: GAUGE POINT: TO TOP LIP OF 2" DIAMETER MMC BALL VALVE,
LOCATED NEAR GEOMETRIC CENTER; NO TRIM CORRECTION REQUIRED

NOTE: CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT CENTERLINE.

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OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED 7/15/2020 BY: WHF/TFG
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IVC MARINE



**Independent Vessel
Calibration**

Ship & Barge Calibrators

**BARGE "CCL 30"
HULL NO. C&C Marine 341**

**TANK NO. 1
ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL ULLAGE GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

GAUGE HEIGHT: 16'-3 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	142,388	0	133,355	0	124,320	0	115,286	0	105,568	0	95,274	0	84,980	0	74,687
1/4		1/4		1/4	142,200	1/4	133,166	1/4	124,132	1/4	115,098	1/4	105,353	1/4	95,059	1/4	84,766	1/4	74,472
1/2		1/2		1/2	142,012	1/2	132,978	1/2	123,944	1/2	114,910	1/2	105,139	1/2	94,845	1/2	84,551	1/2	74,258
3/4		3/4		3/4	141,824	3/4	132,790	3/4	123,756	3/4	114,721	3/4	104,924	3/4	94,631	3/4	84,337	3/4	74,043
1		1		1	141,635	1	132,602	1	123,567	1	114,533	1	104,710	1	94,416	1	84,122	1	73,829
1/4		1/4		1/4	141,447	1/4	132,413	1/4	123,379	1/4	114,345	1/4	104,495	1/4	94,202	1/4	83,908	1/4	73,614
1/2		1/2	148,887	1/2	141,259	1/2	132,225	1/2	123,191	1/2	114,157	1/2	104,281	1/2	93,987	1/2	83,694	1/2	73,400
3/4		3/4	148,880	3/4	141,071	3/4	132,037	3/4	123,003	3/4	113,969	3/4	104,066	3/4	93,773	3/4	83,479	3/4	73,186
2		2	148,867	2	140,883	2	131,849	2	122,815	2	113,780	2	103,852	2	93,558	2	83,265	2	72,971
1/4		1/4	148,840	1/4	140,694	1/4	131,661	1/4	122,626	1/4	113,592	1/4	103,638	1/4	93,344	1/4	83,050	1/4	72,757
1/2		1/2	148,800	1/2	140,506	1/2	131,472	1/2	122,438	1/2	113,404	1/2	103,423	1/2	93,129	1/2	82,836	1/2	72,542
3/4		3/4	148,746	3/4	140,318	3/4	131,284	3/4	122,250	3/4	113,216	3/4	103,209	3/4	92,915	3/4	82,621	3/4	72,328
3		3	148,679	3	140,130	3	131,096	3	122,062	3	113,027	3	102,994	3	92,701	3	82,407	3	72,113
1/4		1/4	148,598	1/4	139,942	1/4	130,908	1/4	121,873	1/4	112,839	1/4	102,780	1/4	92,486	1/4	82,192	1/4	71,899
1/2		1/2	148,504	1/2	139,754	1/2	130,720	1/2	121,685	1/2	112,651	1/2	102,565	1/2	92,272	1/2	81,978	1/2	71,685
3/4		3/4	148,396	3/4	139,565	3/4	130,531	3/4	121,497	3/4	112,463	3/4	102,351	3/4	92,057	3/4	81,763	3/4	71,470
4		4	148,275	4	139,377	4	130,343	4	121,309	4	112,275	4	102,136	4	91,843	4	81,549	4	71,256
1/4		1/4	148,141	1/4	139,189	1/4	130,155	1/4	121,121	1/4	112,086	1/4	101,922	1/4	91,628	1/4	81,335	1/4	71,041
1/2		1/2	147,993	1/2	139,001	1/2	129,967	1/2	120,932	1/2	111,898	1/2	101,707	1/2	91,414	1/2	81,120	1/2	70,827
3/4		3/4	147,832	3/4	138,813	3/4	129,778	3/4	120,744	3/4	111,701	3/4	101,493	3/4	91,199	3/4	80,906	3/4	70,612
5		5	147,657	5	138,624	5	129,590	5	120,556	5	111,504	5	101,279	5	90,985	5	80,691	5	70,398
1/4		1/4	147,469	1/4	138,436	1/4	129,402	1/4	120,368	1/4	111,307	1/4	101,064	1/4	90,770	1/4	80,477	1/4	70,183
1/2		1/2	147,281	1/2	138,248	1/2	129,214	1/2	120,180	1/2	111,110	1/2	100,850	1/2	90,556	1/2	80,262	1/2	69,969
3/4		3/4	147,093	3/4	138,060	3/4	129,026	3/4	119,991	3/4	110,904	3/4	100,635	3/4	90,342	3/4	80,048	3/4	69,755
6		6	146,904	6	137,872	6	128,837	6	119,803	6	110,698	6	100,421	6	90,127	6	79,833	6	69,540
1/4		1/4	146,716	1/4	137,683	1/4	128,649	1/4	119,615	1/4	110,492	1/4	100,206	1/4	89,913	1/4	79,619	1/4	69,326
1/2		1/2	146,528	1/2	137,495	1/2	128,461	1/2	119,427	1/2	110,286	1/2	99,992	1/2	89,698	1/2	79,405	1/2	69,111
3/4		3/4	146,340	3/4	137,307	3/4	128,273	3/4	119,238	3/4	110,071	3/4	99,777	3/4	89,484	3/4	79,190	3/4	68,897
7		7	146,152	7	137,119	7	128,085	7	119,050	7	109,857	7	99,563	7	89,269	7	78,976	7	68,682
1/4		1/4	145,964	1/4	136,931	1/4	127,896	1/4	118,862	1/4	109,642	1/4	99,349	1/4	88,955	1/4	78,761	1/4	68,468
1/2		1/2	145,775	1/2	136,742	1/2	127,708	1/2	118,674	1/2	109,428	1/2	99,134	1/2	88,840	1/2	78,547	1/2	68,254
3/4		3/4	145,587	3/4	136,554	3/4	127,520	3/4	118,486	3/4	109,213	3/4	98,920	3/4	88,626	3/4	78,332	3/4	68,039
8		8	145,399	8	136,366	8	127,332	8	118,297	8	108,999	8	98,705	8	88,411	8	78,118	8	67,825
1/4		1/4	145,211	1/4	136,178	1/4	127,143	1/4	118,109	1/4	108,784	1/4	98,491	1/4	88,197	1/4	77,903	1/4	67,610
1/2		1/2	145,023	1/2	135,990	1/2	126,955	1/2	117,921	1/2	108,570	1/2	98,276	1/2	87,983	1/2	77,689	1/2	67,396
3/4		3/4	144,834	3/4	135,801	3/4	126,767	3/4	117,733	3/4	108,355	3/4	98,062	3/4	87,768	3/4	77,474	3/4	67,181
9		9	144,646	9	135,613	9	126,579	9	117,545	9	108,141	9	97,847	9	87,554	9	77,260	9	66,967
1/4		1/4	144,458	1/4	135,425	1/4	126,391	1/4	117,356	1/4	107,927	1/4	97,633	1/4	87,339	1/4	77,046	1/4	66,753
1/2		1/2	144,270	1/2	135,237	1/2	126,202	1/2	117,168	1/2	107,712	1/2	97,418	1/2	87,125	1/2	76,831	1/2	66,538
3/4		3/4	144,082	3/4	135,048	3/4	126,014	3/4	116,980	3/4	107,498	3/4	97,204	3/4	86,910	3/4	76,617	3/4	66,324
10		10	143,894	10	134,860	10	125,826	10	116,792	10	107,283	10	96,990	10	86,696	10	76,402	10	66,109
1/4		1/4	143,705	1/4	134,672	1/4	125,638	1/4	116,603	1/4	107,069	1/4	96,775	1/4	86,481	1/4	76,188	1/4	65,895
1/2		1/2	143,517	1/2	134,484	1/2	125,450	1/2	116,415	1/2	106,854	1/2	96,561	1/2	86,267	1/2	75,973	1/2	65,680
3/4		3/4	143,329	3/4	134,296	3/4	125,261	3/4	116,227	3/4	106,640	3/4	96,346	3/4	86,053	3/4	75,759	3/4	65,466
11		11	143,141	11	134,107	11	125,073	11	116,039	11	106,425	11	96,132	11	85,838	11	75,544	11	65,251
1/4		1/4	142,953	1/4	133,919	1/4	124,885	1/4	115,851	1/4	106,211	1/4	95,917	1/4	85,624	1/4	75,330	1/4	65,037
1/2		1/2	142,764	1/2	133,731	1/2	124,697	1/2	115,662	1/2	105,997	1/2	95,703	1/2	85,409	1/2	75,115	1/2	64,823
3/4		3/4	142,576	3/4	133,543	3/4	124,508	3/4	115,474	3/4	105,782	3/4	95,488	3/4	85,195	3/4	74,901	3/4	64,608

NOTE: BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

NOTE: GAUGE POINT: TO TOP LIP OF 2" DIAMETER MMC BALL VALVE,
LOCATED NEAR GEOMETRIC CENTER; NO TRIM CORRECTION REQUIRED

NOTE: CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT CENTERLINE.

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES
OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED 7/15/2020 BY: WHF/TFW
DATE COMPUTED: 7/21/2020 BY: WHF
DATE ISSUED: 8/03/2020

IVC MARINE



Independent Vessel
Calibration

Ship & Barge Calibrators

BARGE "CCL 30"
HULL NO. C&C Marine 341

TANK NO. 1
ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL ULLAGE GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

GAUGE HEIGHT: 16'-3 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	64,394	0	54,101	0	43,809	0	33,541	0	23,264	0	12,968	0	2,711	0		0		0	
1/4	64,179	1/4	53,886	1/4	43,594	1/4	33,327	1/4	23,049	1/4	12,753	1/4	2,509	1/4		1/4		1/4	
1/2	63,965	1/2	53,672	1/2	43,380	1/2	33,114	1/2	22,835	1/2	12,538	1/2	2,308	1/2		1/2		1/2	
3/4	63,750	3/4	53,457	3/4	43,166	3/4	32,900	3/4	22,621	3/4	12,323	3/4	2,109	3/4		3/4		3/4	
1	63,536	1	53,243	1	42,951	1	32,687	1	22,406	1	12,109	1	1,911	1		1		1	
1/4	63,322	1/4	53,029	1/4	42,737	1/4	32,473	1/4	22,192	1/4	11,894	1/4	1,715	1/4		1/4		1/4	
1/2	63,107	1/2	52,814	1/2	42,523	1/2	32,260	1/2	21,978	1/2	11,679	1/2	1,520	1/2		1/2		1/2	
3/4	62,893	3/4	52,600	3/4	42,308	3/4	32,046	3/4	21,763	3/4	11,464	3/4	1,326	3/4		3/4		3/4	
2	62,678	2	52,385	2	42,094	2	31,833	2	21,549	2	11,249	2	1,134	2		2		2	
1/4	62,464	1/4	52,171	1/4	41,879	1/4	31,619	1/4	21,335	1/4	11,034	1/4	943	1/4		1/4		1/4	
1/2	62,249	1/2	51,956	1/2	41,665	1/2	31,406	1/2	21,120	1/2	10,819	1/2	754	1/2		1/2		1/2	
3/4	62,035	3/4	51,742	3/4	41,451	3/4	31,192	3/4	20,906	3/4	10,604	3/4	567	3/4		3/4		3/4	
3	61,820	3	51,528	3	41,236	3	30,979	3	20,691	3	10,390	3	381	3		3		3	
1/4	61,606	1/4	51,313	1/4	41,022	1/4	30,766	1/4	20,477	1/4	10,175	1/4	198	1/4		1/4		1/4	
1/2	61,392	1/2	51,099	1/2	40,808	1/2	30,552	1/2	20,263	1/2	9,960	1/2	16	1/2		1/2		1/2	
3/4	61,177	3/4	50,884	3/4	40,593	3/4	30,338	3/4	20,048	3/4	9,745	3/4		3/4		3/4		3/4	
4	60,963	4	50,670	4	40,379	4	30,123	4	19,834	4	9,530	4		4		4		4	
1/4	60,748	1/4	50,455	1/4	40,165	1/4	29,909	1/4	19,619	1/4	9,315	1/4		1/4		1/4		1/4	
1/2	60,534	1/2	50,241	1/2	39,950	1/2	29,695	1/2	19,405	1/2	9,100	1/2		1/2		1/2		1/2	
3/4	60,319	3/4	50,027	3/4	39,736	3/4	29,480	3/4	19,190	3/4	8,886	3/4		3/4		3/4		3/4	
5	60,105	5	49,812	5	39,521	5	29,266	5	18,976	5	8,671	5		5		5		5	
1/4	59,891	1/4	49,598	1/4	39,307	1/4	29,052	1/4	18,762	1/4	8,456	1/4		1/4		1/4		1/4	
1/2	59,676	1/2	49,383	1/2	39,093	1/2	28,837	1/2	18,547	1/2	8,241	1/2		1/2		1/2		1/2	
3/4	59,462	3/4	49,169	3/4	38,879	3/4	28,623	3/4	18,333	3/4	8,026	3/4		3/4		3/4		3/4	
6	59,247	6	48,954	6	38,666	6	28,408	6	18,118	6	7,811	6		6		6		6	
1/4	59,033	1/4	48,740	1/4	38,452	1/4	28,194	1/4	17,904	1/4	7,596	1/4		1/4		1/4		1/4	
1/2	58,818	1/2	48,525	1/2	38,238	1/2	27,980	1/2	17,690	1/2	7,382	1/2		1/2		1/2		1/2	
3/4	58,604	3/4	48,311	3/4	38,025	3/4	27,765	3/4	17,475	3/4	7,167	3/4		3/4		3/4		3/4	
7	58,390	7	48,097	7	37,811	7	27,551	7	17,261	7	6,952	7		7		7		7	
1/4	58,175	1/4	47,882	1/4	37,597	1/4	27,337	1/4	17,046	1/4	6,737	1/4		1/4		1/4		1/4	
1/2	57,961	1/2	47,668	1/2	37,384	1/2	27,122	1/2	16,832	1/2	6,522	1/2		1/2		1/2		1/2	
3/4	57,746	3/4	47,453	3/4	37,170	3/4	26,908	3/4	16,617	3/4	6,307	3/4		3/4		3/4		3/4	
8	57,532	8	47,239	8	36,957	8	26,694	8	16,403	8	6,092	8		8		8		8	
1/4	57,317	1/4	47,024	1/4	36,743	1/4	26,479	1/4	16,189	1/4	5,877	1/4		1/4		1/4		1/4	
1/2	57,103	1/2	46,810	1/2	36,530	1/2	26,265	1/2	15,974	1/2	5,663	1/2		1/2		1/2		1/2	
3/4	56,888	3/4	46,596	3/4	36,316	3/4	26,051	3/4	15,760	3/4	5,448	3/4		3/4		3/4		3/4	
9	56,674	9	46,381	9	36,103	9	25,836	9	15,545	9	5,233	9		9		9		9	
1/4	56,460	1/4	46,167	1/4	35,889	1/4	25,622	1/4	15,331	1/4	5,018	1/4		1/4		1/4		1/4	
1/2	56,245	1/2	45,952	1/2	35,676	1/2	25,407	1/2	15,117	1/2	4,803	1/2		1/2		1/2		1/2	
3/4	56,031	3/4	45,738	3/4	35,462	3/4	25,193	3/4	14,902	3/4	4,588	3/4		3/4		3/4		3/4	
10	55,816	10	45,524	10	35,249	10	24,979	10	14,687	10	4,375	10		10		10		10	
1/4	55,602	1/4	45,309	1/4	35,035	1/4	24,764	1/4	14,472	1/4	4,162	1/4		1/4		1/4		1/4	
1/2	55,387	1/2	45,095	1/2	34,822	1/2	24,550	1/2	14,257	1/2	3,951	1/2		1/2		1/2		1/2	
3/4	55,173	3/4	44,880	3/4	34,608	3/4	24,336	3/4	14,042	3/4	3,741	3/4		3/4		3/4		3/4	
11	54,959	11	44,666	11	34,395	11	24,121	11	13,827	11	3,533	11		11		11		11	
1/4	54,744	1/4	44,452	1/4	34,181	1/4	23,907	1/4	13,613	1/4	3,325	1/4		1/4		1/4		1/4	
1/2	54,530	1/2	44,237	1/2	33,968	1/2	23,693	1/2	13,398	1/2	3,119	1/2		1/2		1/2		1/2	
3/4	54,315	3/4	44,023	3/4	33,754	3/4	23,478	3/4	13,183	3/4	2,914	3/4		3/4		3/4		3/4	

NOTE: BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

NOTE: GAUGE POINT: TO TOP LIP OF 2" DIAMETER MMC BALL VALVE,
LOCATED NEAR GEOMETRIC CENTER; NO TRIM CORRECTION REQUIRED

NOTE: CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT CENTERLINE.

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES
OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED 7/15/2020 BY: WHF/TFC
DATE COMPUTED: 7/21/2020 BY: WHF
DATE ISSUED: 8/03/2020

IVC MARINE

**Independent Vessel
Calibration**

Ship & Barge Calibrators

**BARGE "CCL 30"
HULL NO. C&C Marine 341**

**TANK NO. 2
ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL ULLAGE GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

GAUGE HEIGHT: 16'-4 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	166,613	0	155,017	0	143,421	0	131,825	0	120,229	0	108,633	0	97,037	0	85,441
1/4		1/4		1/4	166,371	1/4	154,775	1/4	143,179	1/4	131,583	1/4	119,987	1/4	108,391	1/4	96,795	1/4	85,199
1/2		1/2		1/2	166,129	1/2	154,533	1/2	142,937	1/2	131,341	1/2	119,745	1/2	108,149	1/2	96,553	1/2	84,957
3/4		3/4		3/4	165,888	3/4	154,292	3/4	142,696	3/4	131,100	3/4	119,504	3/4	107,908	3/4	96,312	3/4	84,716
1		1		1	165,646	1	154,050	1	142,454	1	130,858	1	119,262	1	107,666	1	96,070	1	84,474
1/4		1/4		1/4	165,405	1/4	153,809	1/4	142,213	1/4	130,617	1/4	119,021	1/4	107,425	1/4	95,829	1/4	84,233
1/2		1/2		1/2	165,163	1/2	153,567	1/2	141,971	1/2	130,375	1/2	118,779	1/2	107,183	1/2	95,587	1/2	83,991
3/4		3/4		3/4	164,922	3/4	153,326	3/4	141,730	3/4	130,134	3/4	118,538	3/4	106,942	3/4	95,346	3/4	83,750
2		2		2	164,680	2	153,084	2	141,488	2	129,892	2	118,296	2	106,700	2	95,104	2	83,508
1/4		1/4	174,231	1/4	164,438	1/4	152,842	1/4	141,246	1/4	129,650	1/4	118,054	1/4	106,458	1/4	94,862	1/4	83,266
1/2		1/2	174,222	1/2	164,197	1/2	152,601	1/2	141,005	1/2	129,409	1/2	117,813	1/2	106,217	1/2	94,621	1/2	83,025
3/4		3/4	174,205	3/4	163,955	3/4	152,359	3/4	140,763	3/4	129,167	3/4	117,571	3/4	105,975	3/4	94,379	3/4	82,783
3		3	174,170	3	163,714	3	152,118	3	140,522	3	128,926	3	117,330	3	105,734	3	94,138	3	82,542
1/4		1/4	174,119	1/4	163,472	1/4	151,876	1/4	140,280	1/4	128,684	1/4	117,088	1/4	105,492	1/4	93,896	1/4	82,300
1/2		1/2	174,050	1/2	163,230	1/2	151,634	1/2	140,038	1/2	128,442	1/2	116,846	1/2	105,250	1/2	93,654	1/2	82,058
3/4		3/4	173,963	3/4	162,989	3/4	151,393	3/4	139,797	3/4	128,201	3/4	116,605	3/4	105,009	3/4	93,413	3/4	81,817
4		4	173,860	4	162,747	4	151,151	4	139,555	4	127,959	4	116,363	4	104,767	4	93,171	4	81,575
1/4		1/4	173,739	1/4	162,506	1/4	150,910	1/4	139,314	1/4	127,718	1/4	116,122	1/4	104,526	1/4	92,930	1/4	81,334
1/2		1/2	173,601	1/2	162,264	1/2	150,668	1/2	139,072	1/2	127,476	1/2	115,880	1/2	104,284	1/2	92,688	1/2	81,092
3/4		3/4	173,446	3/4	162,023	3/4	150,427	3/4	138,831	3/4	127,235	3/4	115,639	3/4	104,043	3/4	92,447	3/4	80,851
5		5	173,273	5	161,781	5	150,185	5	138,589	5	126,993	5	115,397	5	103,801	5	92,205	5	80,609
1/4		1/4	173,084	1/4	161,539	1/4	149,943	1/4	138,347	1/4	126,751	1/4	115,155	1/4	103,559	1/4	91,963	1/4	80,367
1/2		1/2	172,877	1/2	161,298	1/2	149,702	1/2	138,106	1/2	126,510	1/2	114,914	1/2	103,318	1/2	91,722	1/2	80,126
3/4		3/4	172,652	3/4	161,056	3/4	149,460	3/4	137,864	3/4	126,268	3/4	114,672	3/4	103,076	3/4	91,480	3/4	79,884
6		6	172,411	6	160,815	6	149,219	6	137,623	6	126,027	6	114,431	6	102,835	6	91,239	6	79,643
1/4		1/4	172,169	1/4	160,573	1/4	148,977	1/4	137,381	1/4	125,785	1/4	114,189	1/4	102,593	1/4	90,997	1/4	79,401
1/2		1/2	171,927	1/2	160,331	1/2	148,735	1/2	137,139	1/2	125,543	1/2	113,947	1/2	102,351	1/2	90,755	1/2	79,159
3/4		3/4	171,686	3/4	160,090	3/4	148,494	3/4	136,898	3/4	125,302	3/4	113,706	3/4	102,110	3/4	90,514	3/4	78,918
7		7	171,444	7	159,848	7	148,252	7	136,656	7	125,060	7	113,464	7	101,868	7	90,272	7	78,676
1/4		1/4	171,203	1/4	159,607	1/4	148,011	1/4	136,415	1/4	124,819	1/4	113,223	1/4	101,627	1/4	90,031	1/4	78,435
1/2		1/2	170,961	1/2	159,365	1/2	147,769	1/2	136,173	1/2	124,577	1/2	112,981	1/2	101,385	1/2	89,789	1/2	78,193
3/4		3/4	170,720	3/4	159,124	3/4	147,528	3/4	135,932	3/4	124,336	3/4	112,740	3/4	101,144	3/4	89,548	3/4	77,952
8		8	170,478	8	158,882	8	147,286	8	135,690	8	124,094	8	112,498	8	100,902	8	89,306	8	77,710
1/4		1/4	170,236	1/4	158,640	1/4	147,044	1/4	135,448	1/4	123,852	1/4	112,256	1/4	100,660	1/4	89,064	1/4	77,468
1/2		1/2	169,995	1/2	158,399	1/2	146,803	1/2	135,207	1/2	123,611	1/2	112,015	1/2	100,419	1/2	88,823	1/2	77,227
3/4		3/4	169,753	3/4	158,157	3/4	146,561	3/4	134,965	3/4	123,369	3/4	111,773	3/4	100,177	3/4	88,581	3/4	76,985
9		9	169,512	9	157,916	9	146,320	9	134,724	9	123,128	9	111,532	9	99,936	9	88,340	9	76,744
1/4		1/4	169,270	1/4	157,674	1/4	146,078	1/4	134,482	1/4	122,886	1/4	111,290	1/4	99,694	1/4	88,098	1/4	76,502
1/2		1/2	169,028	1/2	157,432	1/2	145,836	1/2	134,240	1/2	122,644	1/2	111,048	1/2	99,452	1/2	87,856	1/2	76,260
3/4		3/4	168,787	3/4	157,191	3/4	145,595	3/4	133,999	3/4	122,403	3/4	110,807	3/4	99,211	3/4	87,615	3/4	76,019
10		10	168,545	10	156,949	10	145,353	10	133,757	10	122,161	10	110,565	10	98,969	10	87,373	10	75,777
1/4		1/4	168,304	1/4	156,708	1/4	145,112	1/4	133,516	1/4	121,920	1/4	110,324	1/4	98,728	1/4	87,132	1/4	75,536
1/2		1/2	168,062	1/2	156,466	1/2	144,870	1/2	133,274	1/2	121,678	1/2	110,082	1/2	98,486	1/2	86,890	1/2	75,294
3/4		3/4	167,821	3/4	156,225	3/4	144,629	3/4	133,033	3/4	121,437	3/4	109,841	3/4	98,245	3/4	86,649	3/4	75,053
11		11	167,579	11	155,983	11	144,387	11	132,791	11	121,195	11	109,599	11	98,003	11	86,407	11	74,811
1/4		1/4	167,337	1/4	155,741	1/4	144,145	1/4	132,549	1/4	120,953	1/4	109,357	1/4	97,761	1/4	86,165	1/4	74,569
1/2		1/2	167,096	1/2	155,500	1/2	143,904	1/2	132,308	1/2	120,712	1/2	109,116	1/2	97,520	1/2	85,924	1/2	74,328
3/4		3/4	166,854	3/4	155,258	3/4	143,662	3/4	132,066	3/4	120,470	3/4	108,874	3/4	97,278	3/4	85,682	3/4	74,086

NOTE: BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

NOTE: GAUGE POINT: TO TOP LIP OF 2" DIAMETER MMC BALL VALVE,
LOCATED NEAR GEOMETRIC CENTER; NO TRIM CORRECTION REQUIRED

NOTE: CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT CENTERLINE.

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES
OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED 7/15/2020 BY: WHF/TF
DATE COMPUTED: 7/21/2020 BY: WHF
DATE ISSUED: 8/03/2020

IVC MARINE



Independent Vessel
Calibration

Ship & Barge Calibrators

BARGE "CCL 30" **HULL NO. C&C Marine 341**

TANK NO. 2 **ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL ULLAGE GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

GAUGE HEIGHT: 16'-4 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	73,845	0	62,249	0	50,653	0	39,082	0	27,508	0	15,913	0	4,320	0		0		0	
1/4	73,603	1/4	62,007	1/4	50,411	1/4	38,842	1/4	27,267	1/4	15,671	1/4	4,078	1/4		1/4		1/4	
1/2	73,361	1/2	61,765	1/2	50,170	1/2	38,601	1/2	27,025	1/2	15,430	1/2	3,837	1/2		1/2		1/2	
3/4	73,120	3/4	61,524	3/4	49,928	3/4	38,361	3/4	26,784	3/4	15,188	3/4	3,596	3/4		3/4		3/4	
1	72,878	1	61,282	1	49,687	1	38,120	1	26,542	1	14,947	1	3,356	1		1		1	
1/4	72,637	1/4	61,041	1/4	49,445	1/4	37,880	1/4	26,300	1/4	14,705	1/4	3,115	1/4		1/4		1/4	
1/2	72,395	1/2	60,799	1/2	49,204	1/2	37,639	1/2	26,059	1/2	14,464	1/2	2,874	1/2		1/2		1/2	
3/4	72,154	3/4	60,558	3/4	48,962	3/4	37,399	3/4	25,817	3/4	14,222	3/4	2,634	3/4		3/4		3/4	
2	71,912	2	60,316	2	48,721	2	37,159	2	25,576	2	13,981	2	2,394	2		2		2	
1/4	71,670	1/4	60,074	1/4	48,479	1/4	36,918	1/4	25,334	1/4	13,739	1/4	2,154	1/4		1/4		1/4	
1/2	71,429	1/2	59,833	1/2	48,238	1/2	36,678	1/2	25,093	1/2	13,498	1/2	1,915	1/2		1/2		1/2	
3/4	71,187	3/4	59,591	3/4	47,996	3/4	36,437	3/4	24,851	3/4	13,256	3/4	1,676	3/4		3/4		3/4	
3	70,946	3	59,350	3	47,755	3	36,197	3	24,610	3	13,015	3	1,437	3		3		3	
1/4	70,704	1/4	59,108	1/4	47,513	1/4	35,956	1/4	24,368	1/4	12,773	1/4	1,198	1/4		1/4		1/4	
1/2	70,462	1/2	58,866	1/2	47,271	1/2	35,716	1/2	24,127	1/2	12,531	1/2	961	1/2		1/2		1/2	
3/4	70,221	3/4	58,625	3/4	47,030	3/4	35,475	3/4	23,885	3/4	12,290	3/4	723	3/4		3/4		3/4	
4	69,979	4	58,383	4	46,788	4	35,235	4	23,643	4	12,048	4	486	4		4		4	
1/4	69,738	1/4	58,142	1/4	46,547	1/4	34,995	1/4	23,402	1/4	11,807	1/4	251	1/4		1/4		1/4	
1/2	69,496	1/2	57,900	1/2	46,305	1/2	34,754	1/2	23,160	1/2	11,565	1/2	16	1/2		1/2		1/2	
3/4	69,255	3/4	57,659	3/4	46,064	3/4	34,513	3/4	22,919	3/4	11,324	3/4		3/4		3/4		3/4	
5	69,013	5	57,417	5	45,822	5	34,271	5	22,677	5	11,082	5		5		5		5	
1/4	68,771	1/4	57,175	1/4	45,581	1/4	34,029	1/4	22,435	1/4	10,841	1/4		1/4		1/4		1/4	
1/2	68,530	1/2	56,934	1/2	45,339	1/2	33,788	1/2	22,194	1/2	10,599	1/2		1/2		1/2		1/2	
3/4	68,288	3/4	56,692	3/4	45,098	3/4	33,546	3/4	21,952	3/4	10,358	3/4		3/4		3/4		3/4	
6	68,047	6	56,451	6	44,856	6	33,305	6	21,711	6	10,116	6		6		6		6	
1/4	67,805	1/4	56,209	1/4	44,615	1/4	33,063	1/4	21,469	1/4	9,875	1/4		1/4		1/4		1/4	
1/2	67,563	1/2	55,967	1/2	44,373	1/2	32,822	1/2	21,228	1/2	9,633	1/2		1/2		1/2		1/2	
3/4	67,322	3/4	55,726	3/4	44,133	3/4	32,580	3/4	20,986	3/4	9,392	3/4		3/4		3/4		3/4	
7	67,080	7	55,484	7	43,892	7	32,339	7	20,744	7	9,150	7		7		7		7	
1/4	66,839	1/4	55,243	1/4	43,651	1/4	32,097	1/4	20,503	1/4	8,908	1/4		1/4		1/4		1/4	
1/2	66,597	1/2	55,001	1/2	43,411	1/2	31,856	1/2	20,261	1/2	8,667	1/2		1/2		1/2		1/2	
3/4	66,356	3/4	54,760	3/4	43,170	3/4	31,614	3/4	20,020	3/4	8,425	3/4		3/4		3/4		3/4	
8	66,114	8	54,518	8	42,930	8	31,373	8	19,778	8	8,184	8		8		8		8	
1/4	65,872	1/4	54,276	1/4	42,689	1/4	31,131	1/4	19,536	1/4	7,942	1/4		1/4		1/4		1/4	
1/2	65,631	1/2	54,035	1/2	42,449	1/2	30,890	1/2	19,295	1/2	7,701	1/2		1/2		1/2		1/2	
3/4	65,389	3/4	53,793	3/4	42,208	3/4	30,648	3/4	19,053	3/4	7,459	3/4		3/4		3/4		3/4	
9	65,148	9	53,552	9	41,968	9	30,407	9	18,812	9	7,218	9		9		9		9	
1/4	64,906	1/4	53,310	1/4	41,727	1/4	30,165	1/4	18,570	1/4	6,976	1/4		1/4		1/4		1/4	
1/2	64,664	1/2	53,068	1/2	41,487	1/2	29,923	1/2	18,328	1/2	6,735	1/2		1/2		1/2		1/2	
3/4	64,423	3/4	52,827	3/4	41,246	3/4	29,682	3/4	18,087	3/4	6,493	3/4		3/4		3/4		3/4	
10	64,181	10	52,585	10	41,006	10	29,440	10	17,845	10	6,252	10		10		10		10	
1/4	63,940	1/4	52,344	1/4	40,765	1/4	29,199	1/4	17,604	1/4	6,010	1/4		1/4		1/4		1/4	
1/2	63,698	1/2	52,102	1/2	40,525	1/2	28,957	1/2	17,362	1/2	5,768	1/2		1/2		1/2		1/2	
3/4	63,457	3/4	51,861	3/4	40,284	3/4	28,716	3/4	17,121	3/4	5,527	3/4		3/4		3/4		3/4	
11	63,215	11	51,619	11	40,044	11	28,474	11	16,879	11	5,285	11		11		11		11	
1/4	62,973	1/4	51,378	1/4	39,804	1/4	28,233	1/4	16,638	1/4	5,044	1/4		1/4		1/4		1/4	
1/2	62,732	1/2	51,136	1/2	39,563	1/2	27,991	1/2	16,396	1/2	4,802	1/2		1/2		1/2		1/2	
3/4	62,490	3/4	50,894	3/4	39,323	3/4	27,750	3/4	16,154	3/4	4,561	3/4		3/4		3/4		3/4	

NOTE: BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

NOTE: GAUGE POINT: TO TOP LIP OF 2" DIAMETER MMC BALL VALVE,
LOCATED NEAR GEOMETRIC CENTER; NO TRIM CORRECTION REQUIRED

NOTE: CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT CENTERLINE.

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES
OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED 7/15/2020 BY: WHF/TFC
DATE COMPUTED: 7/21/2020 BY: WHF
DATE ISSUED: 8/03/2020

IVC MARINE



Independent Vessel
Calibration

Ship & Barge Calibrators

BARGE "CCL 30"
HULL NO. C&C Marine 341

TANK NO. 3
ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL ULLAGE GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

GAUGE HEIGHT: 16'-4 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	146,876	0	136,657	0	126,437	0	116,217	0	105,998	0	95,778	0	85,558	0	75,338
1/4		1/4		1/4	146,663	1/4	136,444	1/4	126,224	1/4	116,004	1/4	105,785	1/4	95,565	1/4	85,345	1/4	75,126
1/2		1/2		1/2	146,450	1/2	136,231	1/2	126,011	1/2	115,791	1/2	105,572	1/2	95,352	1/2	85,132	1/2	74,913
3/4		3/4		3/4	146,238	3/4	136,018	3/4	125,798	3/4	115,579	3/4	105,359	3/4	95,139	3/4	84,919	3/4	74,700
1		1		1	146,025	1	135,805	1	125,585	1	115,366	1	105,146	1	94,926	1	84,707	1	74,487
1/4		1/4		1/4	145,812	1/4	135,592	1/4	125,372	1/4	115,153	1/4	104,933	1/4	94,713	1/4	84,494	1/4	74,274
1/2		1/2		1/2	145,599	1/2	135,379	1/2	125,159	1/2	114,940	1/2	104,720	1/2	94,500	1/2	84,281	1/2	74,061
3/4		3/4		3/4	145,386	3/4	135,166	3/4	124,947	3/4	114,727	3/4	104,507	3/4	94,287	3/4	84,068	3/4	73,848
2		2		2	145,173	2	134,953	2	124,734	2	114,514	2	104,294	2	94,075	2	83,855	2	73,635
1/4		1/4	153,590	1/4	144,960	1/4	134,740	1/4	124,521	1/4	114,301	1/4	104,081	1/4	93,862	1/4	83,642	1/4	73,422
1/2		1/2	153,583	1/2	144,747	1/2	134,528	1/2	124,308	1/2	114,088	1/2	103,868	1/2	93,649	1/2	83,429	1/2	73,209
3/4		3/4	153,567	3/4	144,534	3/4	134,315	3/4	124,095	3/4	113,875	3/4	103,656	3/4	93,436	3/4	83,216	3/4	72,996
3		3	153,537	3	144,321	3	134,102	3	123,882	3	113,662	3	103,443	3	93,223	3	83,003	3	72,783
1/4		1/4	153,491	1/4	144,108	1/4	133,889	1/4	123,669	1/4	113,449	1/4	103,230	1/4	93,010	1/4	82,790	1/4	72,570
1/2		1/2	153,431	1/2	143,896	1/2	133,676	1/2	123,456	1/2	113,236	1/2	103,017	1/2	92,797	1/2	82,577	1/2	72,357
3/4		3/4	153,355	3/4	143,683	3/4	133,463	3/4	123,243	3/4	113,024	3/4	102,804	3/4	92,584	3/4	82,365	3/4	72,144
4		4	153,263	4	143,470	4	133,250	4	123,030	4	112,811	4	102,591	4	92,371	4	82,152	4	71,931
1/4		1/4	153,157	1/4	143,257	1/4	133,037	1/4	122,817	1/4	112,598	1/4	102,378	1/4	92,158	1/4	81,939	1/4	71,718
1/2		1/2	153,035	1/2	143,044	1/2	132,824	1/2	122,605	1/2	112,385	1/2	102,165	1/2	91,945	1/2	81,726	1/2	71,506
3/4		3/4	152,899	3/4	142,831	3/4	132,611	3/4	122,392	3/4	112,172	3/4	101,952	3/4	91,733	3/4	81,513	3/4	71,293
5		5	152,747	5	142,618	5	132,398	5	122,179	5	111,959	5	101,739	5	91,520	5	81,300	5	71,080
1/4		1/4	152,579	1/4	142,405	1/4	132,185	1/4	121,966	1/4	111,746	1/4	101,526	1/4	91,307	1/4	81,087	1/4	70,867
1/2		1/2	152,397	1/2	142,192	1/2	131,973	1/2	121,753	1/2	111,533	1/2	101,314	1/2	91,094	1/2	80,874	1/2	70,654
3/4		3/4	152,199	3/4	141,979	3/4	131,760	3/4	121,540	3/4	111,320	3/4	101,101	3/4	90,881	3/4	80,661	3/4	70,441
6		6	151,986	6	141,766	6	131,547	6	121,327	6	111,107	6	100,888	6	90,668	6	80,448	6	70,228
1/4		1/4	151,773	1/4	141,554	1/4	131,334	1/4	121,114	1/4	110,894	1/4	100,675	1/4	90,455	1/4	80,235	1/4	70,015
1/2		1/2	151,560	1/2	141,341	1/2	131,121	1/2	120,901	1/2	110,682	1/2	100,462	1/2	90,242	1/2	80,023	1/2	69,802
3/4		3/4	151,347	3/4	141,128	3/4	130,908	3/4	120,688	3/4	110,469	3/4	100,249	3/4	90,029	3/4	79,810	3/4	69,589
7		7	151,135	7	140,915	7	130,695	7	120,475	7	110,256	7	100,036	7	89,816	7	79,597	7	69,376
1/4		1/4	150,922	1/4	140,702	1/4	130,482	1/4	120,263	1/4	110,043	1/4	99,823	1/4	89,603	1/4	79,384	1/4	69,163
1/2		1/2	150,709	1/2	140,489	1/2	130,269	1/2	120,050	1/2	109,830	1/2	99,610	1/2	89,391	1/2	79,171	1/2	68,950
3/4		3/4	150,496	3/4	140,276	3/4	130,056	3/4	119,837	3/4	109,617	3/4	99,397	3/4	89,178	3/4	78,958	3/4	68,737
8		8	150,283	8	140,063	8	129,843	8	119,624	8	109,404	8	99,184	8	88,965	8	78,745	8	68,524
1/4		1/4	150,070	1/4	139,850	1/4	129,631	1/4	119,411	1/4	109,191	1/4	98,972	1/4	88,752	1/4	78,532	1/4	68,311
1/2		1/2	149,857	1/2	139,637	1/2	129,418	1/2	119,198	1/2	108,978	1/2	98,759	1/2	88,539	1/2	78,319	1/2	68,098
3/4		3/4	149,644	3/4	139,424	3/4	129,205	3/4	118,985	3/4	108,765	3/4	98,546	3/4	88,326	3/4	78,106	3/4	67,885
9		9	149,431	9	139,212	9	128,992	9	118,772	9	108,552	9	98,333	9	88,113	9	77,893	9	67,673
1/4		1/4	149,218	1/4	138,999	1/4	128,779	1/4	118,559	1/4	108,340	1/4	98,120	1/4	87,900	1/4	77,681	1/4	67,460
1/2		1/2	149,005	1/2	138,786	1/2	128,566	1/2	118,346	1/2	108,127	1/2	97,907	1/2	87,687	1/2	77,468	1/2	67,247
3/4		3/4	148,792	3/4	138,573	3/4	128,353	3/4	118,133	3/4	107,914	3/4	97,694	3/4	87,474	3/4	77,255	3/4	67,034
10		10	148,580	10	138,360	10	128,140	10	117,921	10	107,701	10	97,481	10	87,261	10	77,042	10	66,821
1/4		1/4	148,367	1/4	138,147	1/4	127,927	1/4	117,708	1/4	107,488	1/4	97,268	1/4	87,049	1/4	76,829	1/4	66,608
1/2		1/2	148,154	1/2	137,934	1/2	127,714	1/2	117,495	1/2	107,275	1/2	97,055	1/2	86,836	1/2	76,616	1/2	66,395
3/4		3/4	147,941	3/4	137,721	3/4	127,501	3/4	117,282	3/4	107,062	3/4	96,842	3/4	86,623	3/4	76,403	3/4	66,182
11		11	147,728	11	137,508	11	127,289	11	117,069	11	106,849	11	96,630	11	86,410	11	76,190	11	65,969
1/4		1/4	147,515	1/4	137,295	1/4	127,076	1/4	116,856	1/4	106,636	1/4	96,417	1/4	86,197	1/4	75,977	1/4	65,756
1/2		1/2	147,302	1/2	137,082	1/2	126,863	1/2	116,643	1/2	106,423	1/2	96,204	1/2	85,984	1/2	75,764	1/2	65,543
3/4		3/4	147,089	3/4	136,870	3/4	126,650	3/4	116,430	3/4	106,210	3/4	95,991	3/4	85,771	3/4	75,551	3/4	65,330

NOTE: BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

NOTE: GAUGE POINT: TO TOP LIP OF 2" DIAMETER MMC BALL VALVE,
LOCATED NEAR GEOMETRIC CENTER; NO TRIM CORRECTION REQUIRED

NOTE: CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT CENTERLINE.

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES
OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED 7/15/2020 BY: WHF/TF/C

DATE COMPUTED: 7/21/2020 BY: WHF

DATE ISSUED: 8/03/2020

IVC MARINE



**Independent Vessel
Calibration**

Ship & Barge Calibrators

**BARGE "CCL 30"
HULL NO. C&C Marine 341**

**TANK NO. 3
ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL ULLAGE GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

GAUGE HEIGHT: 16'-4 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	65,117	0	54,896	0	44,675	0	34,459	0	24,245	0	14,026	0	3,809	0		0		0	
1/4	64,904	1/4	54,683	1/4	44,462	1/4	34,247	1/4	24,032	1/4	13,813	1/4	3,596	1/4		1/4		1/4	
1/2	64,691	1/2	54,470	1/2	44,249	1/2	34,034	1/2	23,819	1/2	13,600	1/2	3,384	1/2		1/2		1/2	
3/4	64,478	3/4	54,257	3/4	44,036	3/4	33,821	3/4	23,606	3/4	13,387	3/4	3,171	3/4		3/4		3/4	
1	64,265	1	54,044	1	43,823	1	33,609	1	23,393	1	13,174	1	2,959	1		1		1	
1/4	64,052	1/4	53,831	1/4	43,611	1/4	33,396	1/4	23,180	1/4	12,962	1/4	2,747	1/4		1/4		1/4	
1/2	63,840	1/2	53,618	1/2	43,398	1/2	33,183	1/2	22,968	1/2	12,749	1/2	2,535	1/2		1/2		1/2	
3/4	63,627	3/4	53,405	3/4	43,185	3/4	32,971	3/4	22,755	3/4	12,536	3/4	2,323	3/4		3/4		3/4	
2	63,414	2	53,192	2	42,972	2	32,758	2	22,542	2	12,323	2	2,112	2		2		2	
1/4	63,201	1/4	52,979	1/4	42,759	1/4	32,545	1/4	22,329	1/4	12,110	1/4	1,900	1/4		1/4		1/4	
1/2	62,988	1/2	52,766	1/2	42,546	1/2	32,332	1/2	22,116	1/2	11,897	1/2	1,689	1/2		1/2		1/2	
3/4	62,775	3/4	52,553	3/4	42,333	3/4	32,120	3/4	21,903	3/4	11,684	3/4	1,479	3/4		3/4		3/4	
3	62,562	3	52,340	3	42,120	3	31,907	3	21,690	3	11,472	3	1,268	3		3		3	
1/4	62,349	1/4	52,128	1/4	41,908	1/4	31,694	1/4	21,477	1/4	11,259	1/4	1,058	1/4		1/4		1/4	
1/2	62,136	1/2	51,915	1/2	41,695	1/2	31,482	1/2	21,265	1/2	11,046	1/2	848	1/2		1/2		1/2	
3/4	61,923	3/4	51,702	3/4	41,482	3/4	31,269	3/4	21,052	3/4	10,833	3/4	639	3/4		3/4		3/4	
4	61,710	4	51,489	4	41,269	4	31,056	4	20,839	4	10,620	4	431	4		4		4	
1/4	61,497	1/4	51,276	1/4	41,056	1/4	30,844	1/4	20,626	1/4	10,407	1/4	223	1/4		1/4		1/4	
1/2	61,284	1/2	51,063	1/2	40,843	1/2	30,631	1/2	20,413	1/2	10,194	1/2	16	1/2		1/2		1/2	
3/4	61,071	3/4	50,850	3/4	40,630	3/4	30,418	3/4	20,200	3/4	9,981	3/4		3/4		3/4		3/4	
5	60,858	5	50,637	5	40,418	5	30,205	5	19,987	5	9,769	5		5		5		5	
1/4	60,645	1/4	50,424	1/4	40,205	1/4	29,992	1/4	19,774	1/4	9,556	1/4		1/4		1/4		1/4	
1/2	60,432	1/2	50,211	1/2	39,992	1/2	29,779	1/2	19,561	1/2	9,343	1/2		1/2		1/2		1/2	
3/4	60,219	3/4	49,998	3/4	39,779	3/4	29,566	3/4	19,348	3/4	9,130	3/4		3/4		3/4		3/4	
6	60,006	6	49,785	6	39,566	6	29,354	6	19,135	6	8,917	6		6		6		6	
1/4	59,794	1/4	49,572	1/4	39,353	1/4	29,141	1/4	18,923	1/4	8,704	1/4		1/4		1/4		1/4	
1/2	59,581	1/2	49,359	1/2	39,140	1/2	28,928	1/2	18,710	1/2	8,491	1/2		1/2		1/2		1/2	
3/4	59,368	3/4	49,146	3/4	38,927	3/4	28,715	3/4	18,497	3/4	8,279	3/4		3/4		3/4		3/4	
7	59,155	7	48,933	7	38,715	7	28,502	7	18,284	7	8,066	7		7		7		7	
1/4	58,942	1/4	48,720	1/4	38,502	1/4	28,289	1/4	18,071	1/4	7,853	1/4		1/4		1/4		1/4	
1/2	58,729	1/2	48,507	1/2	38,289	1/2	28,076	1/2	17,858	1/2	7,640	1/2		1/2		1/2		1/2	
3/4	58,516	3/4	48,294	3/4	38,076	3/4	27,864	3/4	17,645	3/4	7,427	3/4		3/4		3/4		3/4	
8	58,303	8	48,082	8	37,863	8	27,651	8	17,432	8	7,214	8		8		8		8	
1/4	58,090	1/4	47,869	1/4	37,650	1/4	27,438	1/4	17,219	1/4	7,001	1/4		1/4		1/4		1/4	
1/2	57,877	1/2	47,656	1/2	37,437	1/2	27,225	1/2	17,006	1/2	6,789	1/2		1/2		1/2		1/2	
3/4	57,664	3/4	47,443	3/4	37,225	3/4	27,012	3/4	16,793	3/4	6,576	3/4		3/4		3/4		3/4	
9	57,451	9	47,230	9	37,012	9	26,799	9	16,581	9	6,363	9		9		9		9	
1/4	57,238	1/4	47,017	1/4	36,799	1/4	26,586	1/4	16,368	1/4	6,150	1/4		1/4		1/4		1/4	
1/2	57,025	1/2	46,804	1/2	36,587	1/2	26,373	1/2	16,155	1/2	5,937	1/2		1/2		1/2		1/2	
3/4	56,812	3/4	46,591	3/4	36,374	3/4	26,161	3/4	15,942	3/4	5,724	3/4		3/4		3/4		3/4	
10	56,599	10	46,378	10	36,161	10	25,948	10	15,729	10	5,511	10		10		10		10	
1/4	56,386	1/4	46,165	1/4	35,948	1/4	25,735	1/4	15,516	1/4	5,298	1/4		1/4		1/4		1/4	
1/2	56,173	1/2	45,952	1/2	35,736	1/2	25,522	1/2	15,303	1/2	5,086	1/2		1/2		1/2		1/2	
3/4	55,961	3/4	45,739	3/4	35,523	3/4	25,309	3/4	15,090	3/4	4,873	3/4		3/4		3/4		3/4	
11	55,748	11	45,526	11	35,310	11	25,096	11	14,877	11	4,660	11		11		11		11	
1/4	55,535	1/4	45,313	1/4	35,098	1/4	24,883	1/4	14,665	1/4	4,447	1/4		1/4		1/4		1/4	
1/2	55,322	1/2	45,101	1/2	34,885	1/2	24,670	1/2	14,452	1/2	4,234	1/2		1/2		1/2		1/2	
3/4	55,109	3/4	44,888	3/4	34,672	3/4	24,458	3/4	14,239	3/4	4,021	3/4		3/4		3/4		3/4	

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DATE COMPUTED: 7/21/2020 BY: WHF
DATE ISSUED: 8/03/2020

IVC MARINE

