

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

Certification Date: 09 Aug 2022 Expiration Date: 09 Aug 2027

Certificate of Inspection

d, regulation V/14, for a SAFE MANNING DOCUMENT. For ships on international voyages this certificate fulfills the requirements of SOL IMO Number Call Sign Vessel Name Official Number Tank Barge 1183302 **KIRBY 28084 Hailing Port** Hull Material Horsecowe Propulsion WILMINGTON, DE Steel **UNITED STATES** Place Ruit Net Tons DWT Length Delivery Date **Keel Laid Date** Gmss Tons ASHLAND CITY, TN R-300 0 R-1632 R-1632 UNITED STATES Owner KIRBY INLAND MARINE LP KIRBY INLAND MARINE LP 18350 Market St 55 WAUGH STREETSUITE 1000 Channelview, TX 77530 HOUSTON, TX 77007 UNITED STATES 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.

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

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---

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.

This tank barge is participating in the Eighth Coast Guard District's Tank Barge Streamlined Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted per its Tank Barge Action Plan (TAP). Inspection issues concerning this barge should be directed to OCMI Houston-Galveston.

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.

	spection	c/Re-in	Annual/Periodi	
	Signature	A/P/R	Zone	Date
	Sut Firmis	A	Beton Rouse	10-13-2023
	Randy Nelson	P	Houston TX	5-29-04
1				
10 Part 20 Par	Sitt Firmis	A		10-13-2023

This certificate issued by:

K. A. Hantal, CDR, USCG, By direction

Officer in Charge, Marine Inspection

Marine Safety Unit Port Arthur

Inspection Zone



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

Certification Date: 09 Aug 2022 **Expiration Date:** 09 Aug 2027

Certificate of Inspection

Vessel Name: KIRBY 28084

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

23Dec2026

23Dec2016

28Sep2006

Internal Structure

31Dec2026

09Aug2022

23Dec2016

--- 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

28500

Barrels

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)
#1 PORT	834	13.58
#1 STBD	834	13.58
#2 PORT	839	13.58
#2 STBD	839	13.58
#3 PORT	773	13.58
#3 STBD	773	13.58
SLOP TANK		13.58

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	3786	10ft 0in	13.58	R, LBS
III	4662	11ft 9in	13.58	R, LBS

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), #C1-2201576, dated 10 May 2022, 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 # C2-0601234, dated 08 Jun 2006, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

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: KIRBY 28084

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 8.745 lbs/gal. Cargoes with higher densities, up to 13.58 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

--- Inspection Status ---

Cargo Tanks

11	Internal Exam	P.		External Exar	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
#1 PORT	28Sep2006	23Dec2016	23Dec2026	-		-
#1 STBD	28Sep2006	23Dec2016	23Dec2026	1 .	-	-
#2 PORT	28Sep2006	23Dec2016	23Dec2026	-		-
#2 STBD	28Sep2006	23Dec2016	23Dec2026	=	-	•
#3 PORT	28Sep2006	23Dec2016	23Dec2026	-	-	-
#3 STBD	28Sep2006	23Dec2016	23Dec2026	-	-	-
			Hydro Test			
Tank Id	Safety Valves	S	Previous	Last	Next	
#1 PORT	h.			-	-	
#1 STBD	(-		0. -	-	- 9 **	
#2 PORT	-		-	-	-	
#2 STBD	-		-	-		
#3 PORT	7		-	-	-	
#3 STBD	-		<u>-</u>	-	-	

--- 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

40-B

END





Certificate of Inspection

Cargo Authority Attachment

Official #: 1183302

Shipyard: Trinity, Ashland City

Hull #: 4525

C1-2201576

10-May-22

Tan	k Group Information	Cargo I	dentificati	on		Cargo		Taliks .		Cargo Transfer		Environmental Control		Fire	Special Requirements			
Tnk Grp	Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A ŧ	#1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	п	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50- 81(b),	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	No

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 Identificatio	n					Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor R App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Authorized Subchapter O Cargoes												
Bis(2-ethylhexyl) terephthalate	PEC	34	D/O	E	н	Α	No	N/A	No	G		
Olefins (C13+, all isomers)	OFZ	30	D/O	E	111	Α	Yes	1		G		
Acetonitrile	ATN	37	0	С	Ш	Α	Yes	3	No	G		
Acrylonitrile	ACN	152	0	С	II	Α	Yes	4	.50-70(a), .55-1(e)	G		
Adiponitrile	ADN	37	0	E	11	Α	Yes	1	No	G		
Alkyl (C7-C9) nitrates	AKN	342	0	NA	III	Α	No	N/A	.50-81, .50-86	G		
Aminoethyl ethanolamine	AEE	8	0	E	III	Α	Yes	1	.55-1(b)	G		
Ammonium bisulfite solution (70% or less)	ABX	432	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G		
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	111	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G		
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	П	Α	No	N/A	No	G		
Benzene	BNZ	32	0	С	III	Α	Yes	1	.50-60	G		
Benzene, C10-16 alkyl derivatives	BEND	32	0	D	Ш	Α	No	N/A		G		
Benzene and mixtures having 10% Benzene or more	BHB	322	0	С	111	Α	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	322	0	С	111	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G		
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	111	Α	Yes	1	.50-60	G		
Butyl acrylate (all isomers)	BAR	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Butyl methacrylate	ВМН	14	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Butyraldehyde (all isomers)	BAE	19	0	С	111	Α	Yes	1	.55-1(h)	G		
Camphor oil (light)	СРО	18	0	D	11	A	No	N/A	No	G		
Carbon tetrachloride	CBT	36	0	NA	Ш	Α	Yes	3	No	G		
Caustic potash solution	CPS	52	0	NA	Ш	Α	No	N/A	.50-73, .55-1(j)	G		
Caustic soda solution	CSS	52	0	NA	III	Α	No	N/A	.50-73, .55-1(j)	G		
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G		
Chloroform	CRF	36	0	NA	111	Α	Yes	3	No	G		
Coal tar naphtha solvent	NCT	33	0	D	111	Α	Yes	1	.50-73	G		
Creosote	CCW	212	0	E	111	Α	Yes	1	No	G		
Cresols (all isomers)	CRS	21	0	E	111	Α	Yes	1	No	G		
Cresylate spent caustic	CSC	5	0	NA	III	Α	No	N/A	.50-73, .55-1(b)	G		
Cresylic acid tar	CRX	21	0	E	III	Α	Yes	1	.55-1(f)	G		
Crotonaldehyde	CTA	19 ²	0	С	11	A	Yes	4	.55-1(h)	G		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	192		С	Ш	Α	Yes	1	No	G		
Cyclohexanone	ССН	18	0	D	111	Α	Yes	1	.56-1(a), (b)	G		

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erial #: C1-2201576
Dated: 10-May-22

Certificate of Inspection

Cargo Authority Attachment

Official #: 1183302

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Shipyard: Trinity, Ashland City

Cargo Identificatio	n							Condi	tions of Carriage	
		Compat					Vapor F	Recovery	Special Requirements in 46 CFR	
Name	Chem Code	Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	151 General and Mat'ls of	Insp. Period
Cyclohexanone, Cyclohexanol mixture	CYX	182	0	Ε	Ш	Α	Yes	1	.56-1 (b)	G
Cyclohexylamine	CHA	7	0	D	111	Α	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	Ш	Α	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	E	III	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	Е	III	Α	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	0	С	III	Α	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	11	Α	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	III	Α	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Е	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	01		A	III	Α	No	N/A		G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	432		E	III	A	No	N/A		G
1,1-Dichloropropane	DPB	36	0	c	III	A	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	С	111	A	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	C		A	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	11	A	Yes	4	No	G
	DMX	-	0	C		A	Yes		No	G
Dichloropropene, Dichloropropane mixtures	DEA	8	0	E	-111				.55-1(c)	G
Diethanolamine	DEN	7	0	C		Α	Yes	1	.55-1(c)	G
Diethylamine Diethylamine		72		E	111	Α Α	Yes	3	.55-1(c)	G
Diethylenetriamine	DET				- 111	A	Yes		.55-1(c)	G
Diisobutylamine	DBU	7	0	D	111	A	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	E	111	Α.	Yes			- G
Diisopropylamine	DIA	7	0	С	- 11	Α	Yes	3	.55-1(c)	
N,N-Dimethylacetamide	DAC	10	0	E	III	Α	Yes		.56-1(b)	G
Dimethylethanolamine	DMB		0	D	III	Α	Yes		.56-1(b), (c)	G
Dimethylformamide	DMF	10	0	D	III	Α	Yes	1	.55-1(e)	G
Di-n-propylamine	DNA	7	0	С	II	Α	Yes		.55-1(c)	G
1-Dodecene	DDC	30	0	E	II	Α	No	N/A		G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	III	A	No	N/A		G
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	II	Α	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	0	D	111	Α	No	N/A		G
Ethanolamine	MEA	8	0	Ε	III	Α	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solutions (72% or less)	EAN	7	0	Α	П	Α	No	N/A	.55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	111	Α	Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	111	Α	Yes	1	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	E	Ш	Α	Yes	1	No	G
Ethylenediamine	EDA	72	0	D	Ш	Α	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 ²	0	С	III	Α	Yes	1	No	G
Ethylene glycol hexyl ether	EGH	40	0	E	111	Α	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	Α	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	E	111	Α	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	Ш	Α	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	192	0	E	III	Α	Yes	1	No	G
Formaldehyde solution (37% to 50%)	FMS	192	0	D/E	111	Α	Yes	1	.55-1(h)	G
Furfural	FFA	19	0	D	111	Α	Yes	1	.55-1(h)	G
Glutaraldehyde solutions (50% or less)	GTA	19	0	NA	III	Α	No	N/A	No	G



Certificate of Inspection

Cargo Authority Attachment

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Shipyard: Trinity, Ashland City

C1-2201576

10-May-22

Cargo Identification						Conditions of Carriage					
		Compat						Recovery	Special Requirements in 46 CFR		
Name	Chem	Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	151 General and Mat'ls of Construction	Insp. Period	
Hexamethylenediamine solution	нмс	7	0	E	Ш	Α	Yes	1	.55-1(c)	G	
Hexamethyleneimine	НМІ	7	0	С	Ш	Α	Yes	1	.56-1(b), (c)	G	
Isoprene	IPR	30	0	Α	- 111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G	
Isoprene, Pentadiene mixture	IPN	30	0	В	111	Α	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)	KPL	5	. 0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G	
Mesityl oxide	MSO	182	0	D	111	Α	Yes	1	No	G	
Methyl acrylate	MAM	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Methylcyclopentadiene dimer	MCK	30	0	С	Ш	Α	Yes	1	No	G	
Methyl diethanolamine	MDE	8	0	E	111	Α	Yes	1	.56-1(b), (c)	G	
2-Methyl-5-ethyl pyridine	MEP	9	0	E	111	Α	Yes	1	.55-1(e)	G	
Methyl methacrylate	MMM	14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
2-Methylpyridine	MPR	9	0	D	. 111	Α	Yes	3	.55-1(c)	G	
alpha-Methylstyrene	MSR	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Morpholine	MPL	72	0	D	111	Α	Yes	1	.55-1(c)	G	
Nitroethane	NTE	42	0	D	11	Α	No	N/A	.50-81, .56-1(b)	G	
1- or 2-Nitropropane	NPM	42	0	D	Ш	Α	Yes	1	.50-81	G	
1,3-Pentadiene	PDE	30	0	Α	III	Α	No	N/A	.50-70(a), .50-81	G	
Perchloroethylene	PER	36	0	NA	III	Α	No	N/A	No	G	
Polyethylene polyamines	PEB	72	0	E	III	Α	Yes	1	.55-1(e)	G	
Potassium chloride solution (brine)	PCSE	3 0	0	NA	111	Α	No	N/A		G	
iso-Propanolamine	MPA	8	0	E	III	A	Yes	1	.55-1(c)	G	
Propanolamine (iso-, n-)	PAX	8	0	E	111	Α	Yes	1	.56-1(b), (c)	G	
Isopropylamine	IPP	7	0	A	Ш	Α	Yes	5	.55-1(c)	G	
Pyridine	PRD	9	0	С	III	A	Yes	1	.55-1(e)	G	
Sodium aluminate solution (45% or less)	SAU	5	0	NA	III	A	No	N/A	.50-73, .56-1(a), (b), (c)	G	
Sodium chlorate solution (50% or less)	SDD	01		NA	111	A	No	N/A	.50-73	G	
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	III	A	No	N/A	.50-73, .56-1(a), (b)	G	
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	01		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)	SSI	0 1		NA	III	A	No	N/A	.50-73, .55-1(b)	G	
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	01	2 0	NA	II	Α	No	N/A	.50-73, .55-1(b)	G	
Spent Caustic Soda Solution (containing up to 0.1% Benzene)	SCSS	5 5	0	NA	III	Α	No	N/A	.50-60, .50-73, .55-1(j)	G	
Styrene monomer	STY	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Tetrachloroethane	TEC	36	0	NA	III	A	No	N/A	No	G	
Tetraethylene pentamine	TTP	7	0	E	III	A	Yes	1	.55-1(c)	G	
Tetrahydrofuran	THF	41	0	C	III	A	Yes	1	.50-70(b)	G	
1,2,4-Trichlorobenzene	тсв	36	0	E	111	A	Yes	1	No	G	
1,1,2-Trichloroethane	TCM	36	0	NA	III	A	Yes	1	.50-73, .56-1(a)	G	
Trichloroethylene	TCL	362		NA	111	A	Yes	1	No	G	
1,2,3-Trichloropropane	TCN	36	0	E	11	A	Yes	3	.50-73, .56-1(a)	G	
Triethanolamine	TEA	82		E	111	A	Yes	1	.55-1(b)	G	
Triethylamine	TEN	7	0	C	11	A	Yes	3	.55-1(e)	G	
Triethylenetetramine	TET	72		E	111	A	Yes	1	.55-1(b)	G	
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	III	A	No	N/A	.56-1(a), (b), (c)	G	
Trisodium phosphate solution	TSP	5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (c).	G	
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	A	No	N/A	.56-1(b)	G	
orea, Annihoman made solution (containing more than 2 % 1973)	VBL	. 5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (c), (g)	G	

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Department of Homeland Security **United States Coast Guard** Serial #: C1-2201576

10-May-22

Certificate of Inspection

Cargo Authority Attachment

Shipyard: Trinity, Ashland City Hull #: 4525

Official #: 1183302	Page 4 of 9							Hull #: 4525							
-	Cargo Identification									Conditions of Carriage					
N	lame	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period				
Vinyl acetate		VAM	13	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G				
Vinyl neodecanoate		VND	13	0	E	III	Α	No	N/A	.50-70(a), .50-81(a), (b)	G				
Vinyltoluene		VNT	13	0	D	111	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G				

Vinyl neodecanoate	VND	13	0	E	III	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Vinyltoluene	VNT	13	0	D	Ш	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G
Subchapter D Cargoes Authorized for Vapor Contro	ol.									
Acetone	ACT	18 ²	D	С		Α	Yes	1		
Acetophenone	ACP	18	D	E		Α	Yes	1		
Alcohol (C12-C16) poly(20+) ethoxylates	APW	20	D	E		Α	Yes	1		
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	AEA	20	D	E		Α	Yes	1		
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	AEB	20	D	E		Α	Yes	1		
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1		
Benzyl acetate	BZE	34	D	E		Α	Yes	1	357	
Benzyl alcohol	BAL	21	D	E		Α	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)	BFY	20	D	E		Α	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1		2
Isobutyl alcohol	IAL	20 ²	D	D		Α	Yes	1		
Butyl alcohol (n-)	BAN	20 2	D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS	20 ²	D	С		Α	Yes	1		
tert-Butyl Alcohol	BAT	20 ²	D	С		Α	Yes	1		
Butyl benzyl phthalate	врн	34	D	E		Α	Yes	1		
Butyl toluene	BUE	32	D	D		Α	Yes	1		
Caprolactam solutions	CLS	22	D	E		Α	Yes	1		
Cycloheptane	CYE	31	D	С		Α	Yes	1		
Cyclohexane	CHX	31	D	С		Α	Yes	1		
Cyclohexanol	CHN	20	D	Ε		Α	Yes	1		
Cyclohexyl acetate	CYC	34	D	D		Α	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2		
Cyclopentane	CYP	31	D	В		Α	Yes	1		
p-Cymene	CMP	32	D	D		Α	Yes	1		
iso-Decaldehyde	IDA	19	D	E		Α	Yes	1		
n-Decaldehyde	DAL	19	D	E		Α	Yes	1		
Decanoic acid	DCO	4	D	#		Α	Yes	1		
Decene	DCE	30	D	D		A	Yes	1		
Decyl alcohol (all isomers)	DAX	20 ²	D	Ε		Α	Yes	1	2	
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	Е		Α	Yes	1		
Diacetone alcohol	DAA	20 ²	D	D.		Α	Yes	1		
Dibutyl phthalate	DPA	34	D	E		Α	Yes	1		
Diethylbenzene	DEB	32	D	D		Α	Yes	1		
Diethylene glycol	DEG	40 2	D	E		Α	Yes	1		

^{***} This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. ***





Dated: 10-May-22

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Shipyard: Trinity, Ashland City

Cargo Identification								Condi	itions of Carriage	
		Compat		T				Recovery	Special Requirements in 46 CFR	_
Name	Chem Code	Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	151 General and Mat'ls of	Insp. Period
Diisobutylene	DBL	30	D	С		Α	Yes	1	250	
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	E		Α	Yes	1		
Dipentene	DPN	30	D	D		Α	Yes	1		
Diphenyl	DIL	32	D	D/E		Α	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	Е		Α	Yes	1		
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1		
Dipropylene glycol	DPG	40	D	E		Α	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1		
Distillates: Straight run	DSR	33	D	E		Α	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1		
Dodecylbenzene	DDB	32	D	E		Α	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1	8	
Ethyl acetate	ETA	34	D	С		Α	Yes	1		
Ethyl acetoacetate	EAA	34	D	E		Α	Yes	1		
Ethyl alcohol	EAL	20 2	. D	С		Α	Yes	1		
Ethylbenzene	ETB	32	D	С		Α	Yes	1		
Ethyl butanol	EBT	20	D	D		Α	Yes	1		
Ethyl tert-butyl ether	EBE	41	D	С		Α	Yes	1		
Ethyl butyrate	EBR	34	D	D		Α	Yes	1		
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1		
Ethylene glycol	EGL	20 2	2 D	E		Α	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1		
Ethylene glycol diacetate	EGY	34	D	Е		Α	Yes	1		
Ethylene glycol phenyl ether	EPE	40	D	E		Α	Yes	1	0.0	
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1		
2-Ethylhexanol	EHX	20	D	E		Α	Yes	1		
Ethyl propionate	EPR	34	D	С		Α	Yes	1		
Ethyl toluene	ETE	32	D	D		Α	Yes			
Formamide	FAM	10	D	Ε		Α	Yes	1	2.	
Furfuryl alcohol	FAL	20 2	2 D	E		Α	Yes	1		
Gasoline blending stocks: Alkylates	GAK	33	D	С		Α	Yes	1	4	
Gasoline blending stocks: Reformates	GRF	33	D	С		Α	Yes	1		
Gasolines: Automotive (containing not over 4.23 grams lead per gallor	n) GAT	33	D	A/C		Α	Yes	1		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV	33	D	С		Α	Yes	1		
Gasolines: Casinghead (natural)	GCS	33	D	A/C		Α	Yes	1		
Gasolines: Polymer	GPL	33	D	С		Α	Yes	1		



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Shipyard: Trinity, Ashland City

Serial #: C1-2201576

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Cargo Idențif	ication					Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period		
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1				
Glycerine	GCR	20 2	2 D	E		Α	Yes	1				
Heptane (all isomers)	HMX	31	D	С		Α	Yes	1				
n-Heptanoic acid	HEN	4	D	E		Α	Yes	1				
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1				
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2				
Heptyl acetate	HPE	34	D	E		Α	Yes	1				
Hexane (all isomers)	HXS	31 2	2 D	B/C		Α	Yes	1	a 2a - 1	y:		
Hexanoic acid	нхо	4	D	E		Α	Yes	1				
Hexanol	HXN	20	D	D		Α	Yes	1				
Hexene (all isomers)	HEX	30	D	С		Α	Yes	2				
Hexylene glycol	HXG	20	D	E		- A	Yes	1	× 2			
Isophorone	IPH	18	2 D	E		Α	Yes	1				
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1				
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes	1				
Kerosene	KRS	33	D	D		Α	Yes	1				
Lauric acid	LRA	34	D	#		Α	Yes	1				
Methyl acetate	MTT	34	D	D		Α	Yes	1				
Methyl alcohol	MAL	20	2 D	С		Α	Yes	1				
Methylamyl acetate	MAC	34	D	D		Α	Yes	1				
Methylamyl alcohol	MAA	20	D	D		Α	Yes	1				
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1				
Methyl tert-butyl ether	MBE	41	2 D	С		Α	Yes	1				
Methyl butyl ketone	МВК	v v.ten	D	С		Α	Yes	1	,			
Methyl butyrate	MBU		D	С		Α	Yes	1				
Methylcyclohexane	MCY		D	С		A	Yes	1				
Methyl ethyl ketone	MEK			С		A	Yes	1				
Methyl heptyl ketone	MHK		D	D		A	Yes	1				
2-Methyl-2-hydroxy-3-butyne	MHE		D	С		Α	Yes	1				
Methyl isobutyl ketone	MIK	18		С		A	Yes	1				
Mineral spirits	MNS		D	D		A	Yes	1				
Myrcene	MRE		D	D		A	Yes					
Naphtha: Heavy	NAG		D	#	524	A	Yes					
Naphtha: Petroleum	PTN		D	#		A	Yes					
Naphtha: Solvent	NSV	in solven	D	D		A	Yes	-				
Naphtha: Stoddard solvent	NSS		D	D		A	Yes					
Naphtha: Varnish makers and painters (75%)	NVM		D	С		A	Yes	+				
Neodecanoic acid	NEA		D	E		A	Yes	999		-		
Nonane (all isomers)	NAX		D	D		A	Yes					
Nonene (all isomers)	NON			D		A	Yes					





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Shipyard: Trinity, Ashland City Hull #: 4525

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Cargo Identifica	Conditions of Carriage									
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Nonyl alcohol (all isomers)	NNS	20 2	. D	Е		Α	Yes	1		
Nonyl phenol	NNP	21	D	Е		Α	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	. D	E		Α	Yes	1		
Octane (all isomers)	OAX	31	D	С		Α	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes	1		
Octanol (all isomers)	ocx	20 2	. D	E		Α	Yes	1		
Octene (all isomers)	ОТХ	30	D	С		Α	Yes	2		
Oil, fuel: No. 2	OTW	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 2-D	OTD	33	D	D	12	Α	Yes	1		
Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1		A L
Oil, fuel: No. 5	OFV	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 6	osx	33	D	E		Α	Yes	1		
Oil, misc: Crude	OIL	33	D	A/D		Α	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1		
Oil, misc: Gas, high pour	OGP	33	D	E		Α	Yes	1		
Oil, misc: Lubricating	OLB	33	D	E		Α	Yes	1		
Oil, misc: Residual	ORL	33	D	Е		. A	Yes	1		
Oil, misc: Turbine	ОТВ	33	D	E		Α	Yes	1		
alpha-Olefins (C6-C18) mixtures	OAM	30	D	Е		Α	Yes	1		
Pentane (all isomers)	PTY	31	D	Α		Α	Yes	5		
Pentene (all isomers)	PTX	30	D	Α		Α	Yes	5		
n-Pentyl propionate	PPE	34	D	D		Α	Yes	1		
alpha-Pinene	PIO	30	D	D		Α	Yes	1		
beta-Pinene	PIP	30	D	D		Α	Yes	1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	PAG	40	D	E		Α	Yes	1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	PAF	34	D	E		Α	Yes	1		
Polybutene	PLB	30	D	E		Α	Yes	1		
Polypropylene glycol	PGC	40	D	E		Α	Yes	1		
Propionaldehyde	PAD	19	D	С		Α	Yes	2		
Isopropyl acetate	IAC	34	D	С		Α	Yes	1		
n-Propyl acetate	PAT	34	D	С		Α	Yes	1		
Isopropyl alcohol	IPA	20	2,3 D	С		Α	Yes	1		
n-Propyl alcohol	PAL	20	2 D	С		Α	Yes	1		
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1		
Isopropylcyclohexane	IPX	31	D	D		Α	Yes	1		
Propylene glycol	PPG	20	2 D	E		Α	Yes	1		
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1		
Propylene tetramer	PTT	30	D	D		Α	Yes	1		
Sulfolane	SFL	39	D	E		Α	Yes	1		
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1		





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Shipyard: Trinity, Ashland City

Hull #: 4525

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Cargo Identification							Conditions of Carriage							
		Compat					Vapor Recovery		Special Requirements in 46 CFR					
	Chem Code	Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	151 General and Mat'ls of Construction	Insp. Period				
	THN	32	D	E		Α	Yes	1	3					
- hv =	TTC	32	D	#		Α	Yes	1		7 N				
	TOL	32	D	С		Α	Yes	1						

Name	Code	No	Chapter	Grade	Туре	Group	(Y or N)	Category	Construction	Period
Tetrahydronaphthalene	THN	32	D	Е		Α	Yes	1	*	
Tetramethylbenzene (all isomers)	ттс	32	D	#		Α	Yes	1		 1 70 No.
Toluene	TOL	32	D	С		Α	Yes	1		
Tricresyl phosphate (containing less than 1% ortho isomer)	TCP	34	D	Ε		Α	Yes	1	414	
Triethylbenzene	TEB	32	D	E		Α	Yes	1		= 10.0
Triethylene glycol	TEG	40	D	E		Α	Yes	1		
Triethyl phosphate	TPS	34	D	E		Α	Yes	1		 0.00
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1		
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	TMP	34	D	E		Α	Yes	1		
Trixylyl phosphate	TRP	34	D	E		Α	Yes	1		
1-Undecene	UDC	30	D	D/E		Α	Yes	1		
Undecyl alcohol	UND	20	D	E		Α	Yes	1		
Xylenes	XLX	32	D	D		Α	Yes	1		



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The propper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.

The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual.

Shipyard: Trinity, Ashland

Hull #: 4525

Explanation of terms & symbols used in the Table:

Cargo Identification

Official #: 1183302

Chem Code

Compatability Group No.

Note 1

Note 2

Subchapter

Subchapter D Subchapter O

Note 3

Note 4

NA

Hull Type

Conditions of Carriage Tank Group

> Vapor Recove Approved (Y or N)

Conditions of Carriage Tank Group Vapor Recovery

> Approved (Y or N) VCS Category:

> > Category 2

Category 3 Category 4 Category 5

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.

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:

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.

Certain mixtures of cargoes may not have a CHRIS Code assigned.

hazmatstandards@uscg.mil.
See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart.

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.

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

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.

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.

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). ned to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4)

Not applicable to barges certificated under Subchapter D.

The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.

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.

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.

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.

(No additional VCS requirements above those for benzene, gasolines 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.

(Polymerizes) Polymerization 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.

(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. requirement is in addition to the requirements of Category 1.

(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.

(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.

(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5. (High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.

The cargo has not been evaluated/classified for use in vapor control systems.