

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

Certification Date: 08 Nov 2019 Expiration Date: 08 Nov 2020

Temporary 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.

This Temporary Certificate of Inspection is issued under the provision of Title 46 United States Code, Section 399, in lieu of the regular certificate of inspection, and shall be in force only until the receipt on board said vessel of the original certificate of inspection, this certificate in no case to be valid after one year from the date of inspection.

Vessel Name

Official Number

IMO Number

Call Sign

Conico

KIRBY 18602

945146

Tank Barge

Hailing Port

WILMINGTON, DE

Hull Material

Steel

Horsepower

Propulsion

UNITED STATES

Place Built

Delivery Date

Keel Laid Date

Gross Tons Net Tons

I-

DWT

Length

1-0

CARUTHERSVILLE, MO

13Sep1989 01Apr1989

R-1201 R-1201

R-218 0

UNITED STATES

Owner

KIRBY INLAND MARINE, LP 55 Waugh Drive Suite 1000 Houston, TX 77007 UNITED STATES Operator

KIRBY INLAND MARINE, LP 18350 MARKET STREET CHANNELVIEW, TX 77530 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 Third Mates 0 Radio Officers

0 Second Assistant Engineers

o mind wates

0 Able Seamen

0 Third Assistant Engineers

0 Qualified Member Engineer

0 Master First Class Pilot0 Mate First Class Pilots

0 Ordinary Seamen0 Deckhands

0 Licensed Engineers

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 and Ninth Coast Guard District's Tank Barge Streamlined Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with 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 Houston, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Sector Houston-Galveston certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

	Annual/Peri	odic/Re-Inspe	ction
Date	Zone	A/P/R	Signature

This certificate issued by:

Nicole D. Rodrigue OR USCG, By Direction

Officer in Charge, Marine Inspection

Sector Houston-Galveston

Inspection Zone



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

Certification Date: 07 Nov 2019 **Expiration Date:** 07 Nov 2020

Temporary Certificate of Inspection

Vessel Name: KIRBY 18602

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

30Nov2029

07Nov2019

06Jan2010

Internal Structure

30Nov2024

07Nov2019

02Dec2014

--- 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

18643

Barrels

Yes

No

No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Location Description

Max Cargo Weight per Tank (short tons)

Maximum Density (lbs/gal)

1 P/S

529

18.3

4 P/S

634

18.3

2 & 3 CL

1057

18.3

Conditions Of Carriage

Only Grade "A" and lower cargoes, specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial #C1-1303164 dated 23 Oct 13, and inorganic acids listed below 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 numbers from the "Compat Group No" column listed in the vessel's CAA.

This barge is permitted to carry inorganic acids without the 3/8" plate thickness requirements in 46 CFR 151.50-20(A)(1). It may be shifted to or from inorganic acid service without specific authorization under 46 CFR 151.50-20(I) if tank gauging of all cargo tanks are made at each cargo tank internal exam, and the readings indicate tank plate thickness are within acceptable limits.

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 #C1-1800435 dated 02Feb18, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

Loading Constraints - Stability

Hull Type	Max	Load M	lax Draft	Max Density	Route
	(S/T)	(ft/in)	(lbs/gal)	a so a good or see	
I	2162	8'6"	10.1	LBS, R	
H	2335	9'0"	18.1	LBS, R	
Ш	3244	11'7"	15.4-	18.3 LBS, R	
111	3393	12'0"	15.3	LBS, R	



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

Certification Date: 07 Nov 2019 **Expiration Date:** 07 Nov 2020

Temporary Certificate of Inspection

Vessel Name: KIRBY 18602

Loading Constraints - Structural

Tank	Max Cargo WGT/Each Tank (ST)	Max Density (lbs/gal)
1 P/S 2 C	529 1057	18.3 18.3
3C	1057	18.3
4 P/S	634	18.3

^{*}Stability and Trim*

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 18.3 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

Per 46 CFR 151.10-15(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.

When carrying cargoes that are listed in the CAA at drafts up to 9' 0", provided the maximum design structural loads shown in the loading constraints-structural section are not exceeded, the barge may be loaded non-uniformly as follows: cargo tanks 2 and 3 only, or cargo tanks 3, 4P, 4S and all forward ballast tanks. Trim must be 6 inches or less. At drafts greater than 9'0", the barge must be always uniformly loaded in accordance with above stability and trim statement.

Vessel is required to undergo mid-body gauging survey and engineering analysis in accordance with 46 CFR 31.10-21a at next scheduled dry dock examination.

--- Inspection Status ---

Cargo Tanks

	*	Internal Exam			External Exam	1	
	Tank ld	Previous	Last	Next	Previous	Last	Next
	1 P/S	21Feb2018	07Nov2019	30Nov2021	-	_	_
	4 P/S	21Feb2018	07Nov2019	30Nov2021	-	-	_
	2 & 3 CL	21Feb2018	07Nov2019	30Nov2021	=	-	_
-				Hydro Test			
	Tank Id	Safety Valves		Previous	Last	Next	
	1 P/S	-		-	=	-	
	4 P/S	_		-	-	_	
	2 & 3 CL	-		-	-	-	
1							

40-B

--- 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

END



C1-1303164 Dated:

23-Oct-13

Cargo Authority Attachment

Shipyard: Platzer Hull #: 292

Tank Group Information	l como			Carg		Environmental Control		Fire	Special Requirements								
Trik Grp Tanks in Group	Density	Press.	Temp.	Hull	Sea	Туре	Vent	Gauge	Pipe Class	Cont	Tanks		Protection Provided	General	Materials of Construction	Elec Haz	Tem Cont
A #1P/S, #2C #3C, #4P/S	18.3	Atmos.	Elev	I	1ii 2ii	Integral Gravity	PV	Closed	1	G-1	NR	NA	Portable	40-1(f)(1), .50-5, .50-5(d), .50-20, .50-21, .50-23, .50-60, .50-70(a), .50-70(b), .50-73, .50-80, .50-81(a), .50-81(b),	55-1(b), (c), (e), (f), (g), (h), (i), (j), 56- 1(a), (b), (c), (d), (e), (f), (g), 58-1(a), (d), (e),	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.

List of Authorized Cargoes

Vessel Name: KIRBY 18602

Official #: 945146

Cargo Identificatio	n					Conditions of Carriage					
	1						Vapor Re	ecovery			
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Authorized Subchapter O Cargoes						•••••••••••••••••••••••••••••••••••••					
Acetic acid	AAC	4 2	0	D	Ш	Α	Yes	1	.50-73, .55-1(g)	G	
Acetic anhydride	ACA	11	0	D	III	Α	Yes	1	.50-73, .55-1(g)	G	
Acetone cyanohydrin	ACY	0 1,2	0	E	1	A	Yes	3	.50-5, .50-70(b), .50-73, .50-81	G	
Acetonitrile	ATN	37	0	С	III	Α	Yes	3	Nọ	G	
Acrylic acid	ACR	4 2	0	D	III	Α	Yes	2	.50-70(a), .50-73, .50-81, .58-1(a)	G	
Acrylonitrile	ACN	15 ²	0	С	- II	A	Yes	4	.50-70(a), .55-1(e)	G	
Adiponitrile	ADN	37	0	E	11	Α	Yes	1	No	G	
Alkylbenzenesulfonic acid (greater than 4%)	ABS	0 1,2	0	Ε	Ш	Α	No	N/A	.50-73, .58-1(e)	G	
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	III .	Α	No	N/A	.50-81, .50-86	G	
Aliyi alcohol	ALA	15 ²	0	С	T	Α	Yes	3	.50-5, .50-73	G	
Allyl chloride	ALC	15	0	В	ı	Α	Yes	3	.50-5	G	
Aluminum sulfate solution	ASX	43 ²	0	NA	111	Α	No	N/A	.58-1(e)	G	
Aminoethylethanolamine	AEE	8	0	Ε	Ш	Α	Yes	1	.55-1(b)	G	
Ammonium bisulfite solution (70% or less)	ABX	43 ²	0	NA	111	A	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	
Aniline	ANL	9	0	E	1	Α	Yes	3	.50-5, .50-73	G	
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	- 11	A	No	N/A	No	G	
Benzene	BNZ	32	0	С	[]	A	Yes	1	.50-60	G	
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	ВНВ	32 2	0	С	111	Α	Yes	1	.50-60	G	
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	III	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G	
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	втх	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	III	Α	Yes	1	.55-1(h)	G	
Camphor oil (light)	CPO	18	0	D	Н	A	No	N/A	No	G	
Carbolic oil	СВО	21	0	E	F	Α	Yes	3	.50-5, .50-73	G	
Carbon tetrachloride	CBT	36	0	NA	111	Α	No	N/A	No	G	
Caustic potash solution	CPS	5 ²	0	NA	III	A	No	N/A	.50-73, .55-1(j)	G	
paustic soda solution	CSS	5 ²	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G	
Chemical Oil (refined, containing phenolics)	COD	21	0	Ε	11	Α	No	N/A	.50-73	G	
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G	

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

^{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.



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18602

Official #: 945146

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Shipyard: Platzer

Hull #: 292

Cargo Identification	on .		****			Conditions of Carriage						
						Tast	Vapor Re	vcs	Special Requirements in 46 CFR			
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	Category	151 General and Mat'ls of	Insp. Period		
Chloroform	CRF	36	0	NA	111	Α	Yes	3	No	G		
Chlorohydrins (crude)	CHD	17	0	D	ı	Α	Yes	3	.50-5	G		
o-Chloronitrobenzene	CNO	42	0	Е	I	Α	No	N/A	.50-5, .50-73	G		
Chlorosulfonic acid	CSA	0 1	0	NA	III	Α	No	N/A	.50-20, .50-21, .50-73	G		
Coal tar crude bases	СТВ	9	0	D	I	Α	No	N/A	.50-5, .50-73, .55-1(e)	G		
Coal tar naphtha solvent	NCT	33	0	D	Ш	Α	Yes	1	.50-73	G		
Coal tar pitch (molten)	СТР	33	0	Е	Ш	Α	No	N/A	.50-73	G		
Creosote	ccw	21 ²	0	Ε	III	Α	Yes	1	No	G		
Cresols (all isomers)	CRS	21	0	Е	III	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		0	E	Ш	Α	Yes	1	.55-1(f)	G		
Crotonaldehyde	CTA	19 ²	0	С	II.	Α	Yes	4	.55-1(h)	G		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	СНС		0	С	193	Α	No	N/A	No	G		
Cyclohexanone	CCH	18	0	D	Ш	Α	Yes	1	.56-1(a), (b)	G		
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	III	Α	Yes	1	.56-1 (b)	G		
Cyclohexylamine	CHA	7	0	D	111	A	Yes	1	.56-1(a), (b), (c), (g)	G		
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	Α	Yes	1	.50-60, .56-1(b)	G		
so-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	E	111	Α	Yes	3	.56-1(a), (b)	G		
1,1-Dichloroethane	DCH	36	0	C	[]]	Α	Yes	1	No	G		
2,2'-Dichloroethyl ether	DEE	41	0	D	H	Α	Yes	1	.55-1(f)	G		
Dichloromethane	DCM	36	0	NA	HI	Α	No	N/A	No	G		
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G		
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2		A	(1)	Α	No	N/A	.56-1(a), (b), (c), (g)	G		
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 ²	0	E	[]]	Α	No	N/A	.56-1(a), (b), (c), (g)	G		
1,1-Dichloropropane	DPB	36	0	С	111	A	Yes	3	No	G		
1,2-Dichloropropane	DPP	36	0	C	111	A	Yes	3	No	G		
1,3-Dichloropropane	DPC	36	0	C	111	Α	Yes	3	No	G		
1,3-Dichloropropene	DPU	15	0		<u>::-</u>	A	Yes	4	No	G		
Dichloropropene, Dichloropropane mixtures	DMX	15	0	c	!	A	Yes	1	No	G		
Diethanolamine	DEA	8	0	E	''		Yes	i 1	.55-1(c)	G		
Diethylamine	DEN	7	0	c	111	A	Yes	3	.55-1(c)	G		
Diethylenetriamine	DET	7 2	-			A	Yes	1	.55-1(c)	G		
Disobutylamine	DBU	· ' 7	0	D .	<u>'''</u>		Yes		.55-1(c)	G		
Diisopropanolamine	DIP	-			<u>'''</u>	^_	Yes	_ 1	.55-1(c)	G		
Disopropylamine	DIA		0		' !' ' -	<u></u> A	Yes	3	.55-1(c)	G		
N,N-Dimethylacetamide	DAC	10	0	E	<u>''</u>	<u></u> -	Yes	3	.56-1(b)	G		
Dimethylethanolamine	DMB	8	-	D	<u>'''</u> -	<u>^</u>	Yes	<u></u>	.56-1(b), (c)	G		
Dimethylformamide	DMF		-	D	<u>'''</u>		Yes	<u>'</u>	.55-1(e)	G		
Di-n-propylamine	DNA	10 7		C	<u>'''</u>		Yes	3	.55-1(c)	G		
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT									G		
Dodecyl diphenyl ether disulfonate solution		7		E		A	No	N/A	No No			
	DOS	43	<u> </u>	#		A	No	N/A		2		
Dodecyl phenol EE Charol Ethor Minture	DOL	21		<u>E</u>	<u>-</u>	<u>A</u>	No	N/A		²		
EE Glycol Ether Mixture	EEG	40		_ <u>D</u>	- 111	A	No	N/A	.50-5			
Pichlorohydrin The Pichlorohydrin	EPC	17		<u>D</u>	1	A	Yes	3	.55-1(c)	G		
Ethanolamine	MEA		0	E	JII	A	Yes	1				
Ethyl acrylate	EAC	14	0	C	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G		



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Cargo Authority Attachment

Vessel Name: KIRBY 18602

Official #: 945146

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Shipyard: Platzer Hull #: 292

Cargo Identification						Conditions of Carriage						
						 		ecovery				
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	(Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Ethylamine solution (72% or less)	EAN	7	0	Α	II	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	10	Α	Yes	. 1	.55-1(b)	G		
Ethylene chlorohydrin	ECH	20	0	D	1.	Α	Yes	3	.50-550-73			
Ethylene cyanohydrin	ETC	20	0	Ε	181	Α	Yes	1	No	G		
Ethylenediamine	EDA	7 2	0	D	111	A	Yes	1	.55-1(c)	G		
Ethylene dibromide	EDB	36 ²	0	NF	11	Α	No	N/A	No	G		
Ethylene dichloride	EDC	36 ²	0	С	- 10	Α	Yes	1	No	G		
Ethylene glycol hexyl ether	EGH	40	0	E	III	Α	No	N/A	No	G		
Ethylene glycol monoaikyl ethers	EGC	40	0	D/E	HI	Α	Yes	1	No	G		
Ethylene glycol propyl ether	EGP	40	0	E	III	Α	Yes	1	No	G		
2-Ethylhexyl acrylate	EAI	14	0	E	m	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Ethyl methacrylate	ETM	14	0	D/E	III	Α	Yes	2	.50-70(a)	G		
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	111	Α	Yes	1	No	G		
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	181	Α	Yes	1	.55-1(h)	G		
Formic acid	FMA	4 2	0	Ε	Iti	Α	Yes	1	.50-73, .55-1(i)	G		
Furfural	FFA	19	0	D	III	Α	Yes	1	.55-1(h)	G		
Plutaraldehyde solution (50% or less)	GTA	19	0	NA	111	Α	No	N/A	No	G		
Glyoxylic Acid Solution (50% or less)	GAC	4	0	Ε	111	Α	No	N/A	50-73, .50-81, .58-1(e)	G		
Hexamethylenediamine solution	HMC	7	0	Ε	10	Α	Yes	1	.55-1(c)	G		
Hexamethyleneimine	HMI	7	0	С	П	Α	Yes	1	.56-1(b), (c)	G		
Hydrocarbon 5-9	HFN		0	С	III	Α	Yes	1	.50-70(a), .50-81(a), (b)	G		
2-Hydroxyethyl acrylate	HAI	0 1,2	0	E	ı	Α	Yes	3	.50-5, .50-70(a), .50-73, .50-81(a), (G		
Isoprene	IPR	30	0	Α	III	Α	No	N/A	.50-70(a), .50-81(a), (b)	G		
Isoprene, Pentadiene mixture	IPN		0	В	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)	KPL	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G		
Mesityl oxide	MSO	18 ²	0	D	111	Α	Yes	1	No	G		
Methyl acrylate	MAM	14	0	С	ŧII	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Methylcyclopentadiene dimer	MCK	30	0	С	III	Α	Yes	1	No	G		
Methyl diethanolamine	MDE	8	0	E	HI	Α	Yes	1	.56-1(b), (c)	G		
2-Methyl-5-ethylpyridine	MEP	9	0	E	III	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	III	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	7 ²	0	D	III	Α	Yes	1	.55-1(c)	G		
Naphthalene (molten)	NTM	32	0	С	10	Α	Yes	1	No	G		
Nitric acid (70% or less)	NCD	3	0	NA	ll	Α	No	N/A	.50-20, .50-73, .50-80	4 yr		
Nitrobenzene	NTB	42	0	E	T	Α	Yes	3	.50-5, .50-73	G		
Nitroethane	NTE	42	0	D	li I	Α	No	N/A	.50-81, .56-1(b)	G		
1- or 2-Nitropropane	NPM	42	0	D	111	Α	Yes	1	.50-81	G		
o-Nitrotoluene	NIE	42	0	E	1	Α	No	N/A	.50-5, .50-73	G		
Oleum	OLM	0 1.2		NA	111	A	No	N/A	.50-20, .50-21, .50-73	4 ут		
Pentachloroethane	PCE	36	0	NA	III	A	No	N/A	No	G		
1,3-Pentadiene	PDE	30	0	Α.	111	Α	No	N/A	.50-70(a), .50-81	G		
Perchloroethylene	PER	36	0	NA NA			No	N/A	No	G		
Phenol (or solutions with 5% or more Phenol)	PHN	21	-0	E		<u>^`</u>	No	N/A	.50-5, .50-73	2 yr		
Phosphoric acid	PAC	1	o	NF	101	Ā	No	N/A	.50-73	4 yr		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18602 Official #: 945146

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Shipyard: Platzer Hull #: 292

Serial #: C1-1303164

23-Oct-13

Cargo Identification	n					Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Huii Type	Tank Group	App'd	Recovery VCS Calegory	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.		
Phthalic anhydride (molten)	PAN	11	0	E	111	A	Yes	1	No			
Polyethylene polyamines	PEB	7 2	0	E	111	Α .	Yes	1	.55-1(e)	G		
iso-Propanolamine	MPA	8	0	E	111	Α	Yes	1	.55-1(c)	G		
Propanolamine (iso-, n-)	PAX	8	0	E	III	Α	Yes	1	.56-1(b), (c)	G		
Propionic acid	PNA	4	0	D	III	Α	Yes	1	.50-73, .55-1(g)	G		
iso-Propylamine	IPP	7	0	Α	II	Α	No	N/A	.55-1(c)	G		
Pyridine	PRD	9	0	С	III	Α	Yes	1	.55-1(e)	G		
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		111	Α	No	N/A	.50-73, .55-1(j)	G		
Sodium aluminate solution (45% or less)	SAU	5	0	NA	#11	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G		
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	111	Α	No	N/A	.50-73	G		
Sodium dichromate solution (70% or less)	SDL	0 1,2	0	NA	II	Α	No	N/A	.50-5(d), .50-73, .56-1(b), (c)	G		
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b)	G		
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2	0	NA	10	Α	Yes	1	.50-73, .55-1(b)	G		
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1,2	0	NA	Ш	Α	No	N/A	.50-73, .55-1(b)	G		
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	II	Α	No	N/A	.50-73, .55-1(b)	G		
Sodium thiocyanate solution (56% or less)	STS	0 1,2	0	NA	111	Α	No	N/A	.58-1(a)	G		
styrene (crude)	STX		0	D	tii	Α	Yes	2	No	G		
Styrene monomer	STY	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Sulfuric acid	SFA	2 2	0	NA	111	Α	No	N/A	.50-20, .50-21, .50-73	4 yr		
Sulfuric acid, spent	SAC	2	0	NA	111	Α	No	N/A	.50-20, .50-21, .50-73	4 уг		
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	Ш	Α	No	N/A	No	G		
Tetraethylenepentamine	TTP	7	0	E	111	Α	Yes	1	.55-1(c)	G		
Tetrahydrofuran	THF	41	0	C	Ш	Α	Yes	1	.50-70(b)	G		
Toluenediamine	TDA	9	0	E	- II	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G		
o-Toluidine	TLI	9	0	Ε	II.	Α	Yes	3	.50-5, .50-73	G		
1,2,4-Trichlorobenzene	TCB	36	0	E	- 111	Α	Yes	1	No	G		
1,1,2-Trichloroethane	TCM	36	0	NA	Ш	A	Yes	1	.50-73, .56-1(a)	G		
Trichloroethylene	TCL	36 ²	0_	NA	III	Α	Yes	1	No	G		
1,2,3-Trichloropropane	TCN	36	0	E		Α	Yes	3	.50-73, .56-1(e)	G		
Triethanolamine	TEA	8 ²	0	E	III	Α	Yes	1	.55-1(b)	G		
Triethylamine	TEN	7	0	С		Α	Yes	3	.55-1(e)	G		
Triethylenetetramine	TET	7 2	0	E	111	Α	Yes	1	.55-1(b)	G		
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA.		Α	No	N/A	.56-1(a), (b), (c)	G		
Trisodium phosphate solution	TSP	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(n), (c).	G		
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA		Α	No	N/A	.56-1(b)	G		
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	!!!	Α	No	N/A	Contract the contract of the c	G		
Vinyl acetate	VAM	13	0	_ C		Α	Yes	2	.50-70(a), .50-81(a), (b)	<u> </u>		
Vinyl neodecanate	VND	13	0	Ε	[]]	Α	No	N/A	.50-70(a), .50-81(a), (b)	- G		
Vinyltoluene	VNT	13		D		Α	Yes	2	.50-70(a), .50-81, .58-1(a), (b), (c), (G		
Subchapter D Cargoes Authorized for Vapor Contro												
Acetone	ACT	18 ²	D	С		Α	Yes	1				
Acetophenone	ACP	18	D	E		Α	Yes	1				
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		Α	Yes	1				
lcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		Α	Yes	11				
Amyl acetate (all isomers)	AEC	34	D	D		<u> </u>	Yes	1				
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	Ð	D		Α	Yes	1				



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18602 Official #: 945146

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Shipyard: Platzer

Hull #: 292

Cargo Identification	<u> </u>					T		Condi	tions of Carriage	
Cargo identification	 								cions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
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)	BFX	20	D	E		Α	Yes	1		- 4
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1		
Butyl alcohol (iso-)	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		
Butyl alcohol (tert-)	BAT		D	С		Α	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		Α	Yes	1	•	
Butyl toluene	BUE	32	D	D		Α	Yes	1		
Caprolactam solutions	CLS	22	D	Е		Α	Yes	1		
Cyclohexane	CHX	31	D	С		Α	Yes	1		
Cyclohexanol	CHN	20	D	Ε		Α	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		A	Yes	2		
p-Cymene	CMP	32	D	D		Α	Yes	1		
iso-Decaldehyde	IDA	19	D	E		A	Yes	1		
n-Decaldehyde	DAL	19	D	E		Α	Yes	1	100 Mad 1-1871 (100 m) (100 m) (100 m) (100 m)	
Decene	DCE	30	D	D		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 ²	D	E		Α	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		Α	Yes	1	· · · · · · · · · · · · · · · · · · ·	** **
Diacetone alcohol	DAA	20 ²	D	D		Α	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	E		Α	Yes	1		
Diethylbenzene	DEB	32	D			A	Yes	1		
Diethylene glycol	DEG	40 ²	D	E		Α	Yes	1		
Diisobutylene	DBL	30	D			Α	Yes	1		
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	 D	E		<u></u>	Yes	- · · - <u>·</u> · · · · · · · · · · · · · · · · · ·	W11 F1 - TV - 11 \$4 Authorities	
Dimethyl phthalate	DTL	34	D	E		A	Yes	1		
Dioctyl phthalate	DOP	34	D	E		A	Yes	1		
Dipentene	DPN	30	D			A	Yes	1		
Diphenyl	DIL	32	D	D/E	***	Α	Yes	1	TO PROGRAMMENT AND THE CONTRACT OF STREET AND ADDRESS OF STREET AND ADDRESS OF STREET	
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		Α	Yes	1		
Diphenyl ether	DPE	41	D	- {E}		Α	Yes	1		
Dipropylene glycol	DPG	40		E		A	Yes		****	
Distillates: Flashed feed stocks	DFF	33	D	E		A	Yes	1		
Distillates: Straight run	DSR	33	D	F		A	Yes	•		
Dodecene (all isomers)	DOZ	30	D	D	•	A	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	. D	E		A	Yes	1	* · · · · · · · · · · · · · · · · · · ·	
2-Ethoxyethyl acetate	EEA	34	D	 D		A	Yes			
Ethoxy triglycol (crude)	ETG	40		Ε			Yes			
Ethyl acetate	ETA	34	D			 A	Yes	<u>'</u>		
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1		
Ethyl alcohol	EAL	20 2	D	c			Yes	1		
Ethylbenzene	ETB	32		c			Yes	<u>-</u>		
Sthyl butanol	EBT	20	D	<u>D</u>		A	Yes	1		-
Athyl tert-butyl ether	EBE	41	D	C		A	Yes	1		
Ethyl butyrate	EBR	34	D	D		A	Yes	<u>'</u>	and the second s	
Ethyl cyclohexane	ECY	31	D D	D		A				
	EU 1	31	<u> </u>	U		_^	Yes	1		



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18602 Official #: 945146

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Shipyard: Platzer Hull #: 292

Official #: 945146		P	age 6	of 9					Hull #: 292			
Cargo Identification	on					Conditions of Carriage						
		1 :						Recovery				
Name	Chem Code	Compat Group No		Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Ethylene glycol	EGL	20 ²	D	E		Α	Yes	1				
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1				
Ethylene glycol diacetate	EGY	34	D	E		Α	Yes	1				
Ethylene glycol phenyl ether	EPE	40	D	E		Α	Yes	1				
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	1				
Formamide	FAM	10	D	E		Α	Yes	1				
Furfuryl alcohol	FAL	20 ²	D	E		Α	Yes	1				
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α	Yes	1				
Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	Yes	1				
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		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		A	Yes	1				
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1				
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	. 1				
Glycerine	GCR	20 ²	D	E		Α	Yes	1				
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1				
Heptanoic acid	HEP	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), see Alkanes (C6-C9)	HXS	31 ²	D	B/C		Α	Yes	1				
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	Е		Α	Yes	1				
Isophorone	IPH	18 ²	D	Е		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				
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	A AND DELEMENT OF THE PROPERTY AND ASSESSED ASSESSED.			
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1	the continuous beautiful and the control of the con			
Methyl tert-butyl ether	MBE	41 2	D	С		Α	Yes	1				
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1	•			
Methyl butyrate	MBU	34	D	С		Α	Yes	1				
Methyl ethyl ketone	MEK	18 ²	D	С		Α	Yes	1				
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1				
Methyl isobutyl ketone	MIK	18 ²	D	С		Α	Yes	1				
Methyl naphthalene (molten)	MNA	32	D	E		Α	Yes	1				
Mineral spirits	MNS	33	D	D		Α	Yes	1				
Myrcene	MRE	30	D	D		Α	Yes	1				
Naphtha: Heavy	NAG	33	D	#		A	Yes	1				



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18602 Official #: 945146

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Shipyard: Platzer

Name Chem Compat Code Group No Chapter Grade Type Group Tank Group VCS VCS	Special Requirements in 46 CFR In Pro
Name Chem Code Compat Group No Chapter Sub Chapter Grade Hull Group Type W CS (Y or N) Category Naphtha: Petroleum PTN 33 D # A Yes 1 Naphtha: Solvent NSV 33 D D A Yes 1 Naphtha: Stoddard solvent NSS 33 D D A Yes 1 Naphtha: Varnish makers and painters (75%) NVM 33 D C A Yes 1 Nonane (all isomers), see Alkanes (C6-C9) NAX 31 D D A Yes 1 Nonyl alcohol (all isomers) NNS 20 2 D E A Yes 1 Nonyl phenol NNP 21 D E A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 D E A Yes 1 Octane (all isomers), see Alkanes (C6-C9) OAX 31 D C A<	
Naphtha: Solvent	
Naphtha: Solvent NSV 33 D D A Yes 1 Naphtha: Stoddard solvent NSS 33 D D A Yes 1 Naphtha: Varnish makers and painters (75%) NVM 33 D C A Yes 1 Nonane (all isomers), see Alkanes (C6-C9) NAX 31 D D A Yes 1 Nonene (all isomers) NON 30 D D A Yes 2 Nonyl alcohol (all isomers) NNS 20 2 D E A Yes 1 Nonyl phenol NNP 21 D E A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 D E A Yes 1 Octane (all isomers), see Alkanes (C6-C9) OAX 31 D C A Yes 1 Octanoic acid (all isomers) OAY 4 D E A Yes 1	
Naphtha: Stoddard solvent NSS 33 D D A Yes 1 Naphtha: Varnish makers and painters (75%) NVM 33 D C A Yes 1 Nonane (all isomers), see Alkanes (C6-C9) NAX 31 D D A Yes 1 Nonene (all isomers) NON 30 D D A Yes 2 Nonyl alcohol (all isomers) NNS 20 2 D E A Yes 1 Nonyl phenol NNP 21 D E A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 D E A Yes 1 Octane (all isomers), see Alkanes (C6-C9) OAX 31 D C A Yes 1 Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanoic (all isomers) OCX 20 2 D E A Yes 1	
Naphtha: Varnish makers and painters (75%) NVM 33 D C A Yes 1 Nonane (all isomers), see Alkanes (C6-C9) NAX 31 D D A Yes 1 Nonene (all isomers) NON 30 D D A Yes 2 Nonyl alcohol (all isomers) NNS 20 2 D E A Yes 1 Nonyl phenol NNP 21 D E A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 D E A Yes 1 Notane (all isomers), see Alkanes (C6-C9) OAX 31 D C A Yes 1 Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanol (all isomers) OCX 20 2 D E A Yes 1 Octanol (all isomers) OCX 20 2 D E A Yes 1 <	
Nonane (all isomers), see Alkanes (C6-C9)	
Nonene (all isomers) NON 30 D D A Yes 2 Nonyl alcohol (all isomers) NNS 20 2 D E A Yes 1 Nonyl phenol NNP 21 D E A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 D E A Yes 1 Octane (all isomers), see Alkanes (C6-C9) OAX 31 D C A Yes 1 Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanol (all isomers) OCX 20 2 D E A Yes 1 Octanol (all isomers) OTX 30 D C A Yes 1 Octanol (all isomers) OTX 30 D C A Yes 1 Octanol (all isomers) OTX 30 D C A Yes 1 Otil, fuel: No. 2-D	
Nonyl alcohol (all isomers) NNS 20 2 D E A Yes 1 Nonyl phenol NNP 21 D E A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 D E A Yes 1 Octane (all isomers), see Alkanes (C6-C9) OAX 31 D C A Yes 1 Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanol (all isomers) OCX 20 2 D E A Yes 1 Octanol (all isomers) OTX 30 D C A Yes 1 Octanol (all isomers) OTX 30 D C A Yes 1 Octanol (all isomers) OTX 30 D C A Yes 1 Octanol (all isomers) OTX 30 D C A Yes 1 Oil, fuel: No. 2-D	
Nonyl phenol NNP 21 D E A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 D E A Yes 1 Octane (all isomers), see Alkanes (C6-C9) OAX 31 D C A Yes 1 Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanol (all isomers) OCX 20 2 D E A Yes 1 Octene (all isomers) OTX 30 D C A Yes 2 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 2-D OTD 33 D D/E A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1	
Octane (all isomers), see Alkanes (C6-C9) OAX 31 D C A Yes 1 Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanol (all isomers) OCX 20 2 D E A Yes 1 Octene (all isomers) OTX 30 D C A Yes 2 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 2-D OTD 33 D D/E A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1	
Octanoic acid (all isomers) OAY 4 DE A Yes 1 Octanol (all isomers) OCX 20 2 DE A Yes 1 Octene (all isomers) OTX 30 DC A Yes 2 Oil, fuel: No. 2 OTW 33 DD/E A Yes 1 Oil, fuel: No. 2-D OTD 33 DD/E A Yes 1 Oil, fuel: No. 4 OFR 33 DD/E A Yes 1	
Octanol (all isomers) OCX 20 2 DE A Yes 1 Octene (all isomers) OTX 30 D C A Yes 2 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 2-D OTD 33 D D A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1	
Octene (all isomers) OTX 30 D C A Yes 2 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 2-D OTD 33 D D A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1	
Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 2-D OTD 33 D D A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1	
Oil, fuel: No. 2-D OTD 33 D D A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1	
Oil, fuel: No. 4 OFR 33 D D/E A Yes 1	
Oil field No. 5	
Oil friel No. 5	
Oil, fuel: No. 5 OFV 33 D D/E A Yes 1	
ار OSX 33 D E A Yes 1	
Oil, misc: Crude OIL 33 D C/D A Yes 1	
Oil, misc: Diesel ODS 33 D D/E A Yes 1	
Oil, misc: Gas, high pour OGP 33 D E A Yes 1	
Oil, misc: Lubricating OLB 33 D E A Yes 1	
Oil, misc: Residual ORL 33 D E A Yes 1	
Oil, misc: Turbine OTB 33 D E A Yes 1	
n-Pentyl propionate PPE 34 D D A Yes 1	
alpha-Pinene PIO 30 D D A Yes 1	
beta-Pinene PIP 30 D D A Yes 1	
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether PAG 40 D E A Yes 1	
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate PAF 34 D E A Yes 1	
Polybutene PLB 30 D E A Yes 1	
Polypropylene glycol PGC 40 D E A Yes 1	
iso-Propyl acetate IAC 34 D C A Yes 1	
n-Propyl acetate PAT 34 D C A Yes 1	
iso-Propyl alcohol IPA 20 ² D C A Yes 1	
n-Propyl alcohol PAL 20 ² D C A Yes 1	
Propylbenzene (all isomers) PBY 32 D D A Yes 1	The second secon
iso-Propylcyclohexane IPX 31 D D A Yes 1	
Propylene glycol PPG 20 ² D E A Yes 1	
Propylene glycol methyl ether acetate PGN 34 D D A Yes 1	
Propylene tetramer PTT 30 D D A Yes 1	
Sulfolane SFL 39 D E A Yes 1	
Tetraethylene glycol TTG 40 D E A Yes 1	
Tetrahydronaphthalene THN 32 D E A Yes 1	
Toluene TOL 32 D C A Yes 1	
Tricresyl phosphate (less than 1% of the ortho isomer) TCP 34 D E A Yes 1	
riethylbenzene TEB 32 D E A Yes 1	
riethylene glycol TEG 40 D E A Yes 1	
Triethyl phosphate TPS 34 D E A Yes 1	



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18602 Official #: 945146

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Shipyard: Platzer Hull #: 292

Cargo Identification						Conditions of Carriage				
Name		Compat Group No			Huil te Type		Vapor Recovery			T
	Chem Code		Sub Chapter	Grade		Tank Group	App'd VCS (Y or N) Catego		Special Requirements in 46 CFR y 151 General and Mat's of	Insp. Period
Trimethylbenzene (all isomers)	TRE	32	D	{D}	اا	Α	Yes	1	<u> </u>	
Trixylenyl phosphate	TRP	34	D	Е		Α	Yes	1		
Undecene	UDC	30	D	D/E		Α	Yes	1		
1-Undecyl alcohol	UND	20	D	Е		Α	Yes	1	,	
Xvlenes (ortho-, meta-, para-)	XLX	32	D	ח		Α	Yes	1		



23-Oct-13



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18602

Official #: 945146

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Shipyard: Platzer Hull #: 292

Explanation of terms & symbols used in the Table:

Cargo Identification

Name Chem Code 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. 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.

Compatability 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 Note 2 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-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone

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

See Appendix I to 46 CFR Part 150 - exceptions to the compatability 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 48 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

A, B, C

Note 4

NA

Hull Type

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).

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.

Flammable liquid cargoes, as defined in 46 CFR 30-10.22 Combustible liquid cargoes, as defined in 46 CFR 30-10.15.

Conditions of Carriage

Tank Group Vapor Recove Approved (Y or N)

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

Conditions of Carriage

Tank Group Vapor Recove Approved (Y or N) 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

VCS Category

The specified cargo's provisional classification for vapor control systems.

Category 1

(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 39.20-11) and the pressure drop calculations (46 CFR 39.30-1(b)) 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 splil valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. 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 Category 7

(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

none

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