

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

18 Jul 2024 Certification Date: 18 Jul 2025 **Expiration Date:**

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. IMO Number Official Number Vessel Name Tank Barge 1218294 **KIRBY 13021B** Halling Port Propulsion Hull Material Horsepower WILMINGTON. DE Steel UNITED STATES Length DWT Gross Tons Keel Laid Date Place Built **Delivery Date** R-147.5 R-802 R-802 ASHLAND CITY, TN 12May2009 06Apr2009 1-0 1-1-UNITED STATES Operator Owner KIRBY INLAND MARINE, LP KIRBY INLAND MARINE LP 18350 MARKET STREET 55 WAUGH DR STE 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. 0 Oilers 0 Chief Engineers 0 Licensed Mates 0 Masters

0 First Assistant Engineers 0 First Class Pilots 0 Chief Mates 0 Second Assistant Engineers 0 Radio Officers 0 Second Mates 0 Third Assistant Engineers 0 Able Seamen 0 Third Mates 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---

Also, in fair weather only, limited coastwise, 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 in accordance with 46 CFR 31.10-21(a) (2). If this vessel is operated in salt water more than six (6) months in any twelve (12) month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI must be 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 Freeport, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Houston-Galveston certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder

	egulations pres Annual/Peri	odic/Re-Inspec	otion	This certificate issued by: B.P. Bosgan
Date	Zone	A/P/R	Signature	B.P. BERGAN CDR, USCG, BY DIRECTION
				Officer in Charge, Marine Inspection
				Houston-Galveston
				Inspection Zone
				OMR Approved No. 162



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

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Vessel Name: KIRBY 13021B

This tank barge is participating in the Eighth and Ninth Coast Guard Districts' 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.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31May2029

17May2019

12May2009

Internal Structure

31Jul2029

18Jul2024

15May2019

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

Authorization:

GRADE A AND LOWER AND SPECIFIED HAZARDOUS CARGOES

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated

Part154 Regulated

14000

Barrels

Yes

No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Number

Max Cargo Weight per Tank (short tons)

Maximum Density (lbs/gal)

1 P/S

662

13.60

2 P/S

602

13.60

Loading Constraints - Stability

Hull Type

Maximum Load (short tons)

Maximum Draft

Max Density

Route Description

11

1610

(ft/in) 8ft 6in (lbs/gal) 13.60

R, LBS

III

2420

11ft 9in

13.60

R, LBS

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial # C2-0901134, dated April 10th, 2009, may be carried, and then only in the tanks indicated. When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C are applied.

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

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 13.6 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 max tank weights reflect uniform (within 5%) loading at the deepest draft allowed. When carrying Subchapter O cargoes at shallower drafts, the barge(s) should always be loaded uniformly.



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Vessel Name: KIRBY 13021B

In accordance with 46 CFR Part 39, excluding part 39.4000, this vessel's vapor collection system (VCS) has been inspected to the plans approved by MSC Letter #C2-0901134 dated April 10, 2009 and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column. The VCS system has been approved with a pressure side of 6 psig P/V valve with Coast Guard Approval 162.017/167/2. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 6.5 psig.

--- Inspection Status ---

Cargo Tanks

"Cargo Tanks"						
	Internal Exam	1		External Exar	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	12May2009	15May2019	31May2029	15May2019	18Jul2024	31Jul2029
2 P/S	12May2009	15May2019	31May2029	15May2009	18Jul2024	31Jul2029
			Hydro Test			
Tank Id	Safety Valve	s	Previous	Last	Next	
1 P/S	=		-	2 2	© -	
2 P/S	-		\ <u>-</u>	r.	* 0	

---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

Serial #: C2-0901134



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 13021B

Official #: 1218294

Shipyard: TRINITY

Hull #: 4633

Tar	nk Group Information	Cargo I	dentificat	ion		Cargo		Tanks		Carg		Enviror Control	mental	Fire	Special Require	ments		
Tnk Grp		Density	Press.	Temp.	Hull Typ	Seq		Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
Α 7	#1&2 P/S	13.6	Atmos.	Amb.	, II	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-	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

List of Authorized Cargoes

Cargo Identificatio	n			40				Condi	tions of Carriage	
							Vapor Re	ecovery		
Name	Chem Code	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		8)							* *	
Acetonitrile	ATN	37	0	С	Ш	Α	Yes	3	· No	G
Acrylonitrile	ACN	15 ²	. 0	С	11	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	E	II	A	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 2	. 0	NA	111	Α	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	0	Е	111	Α	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	111	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	Ш	- A	No	N/A	No	G
Benzene	BNZ	32	0	С	III	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	ВНВ	32 ²	0	С	111	A	Yes	<u>·</u> 1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	Ш	A	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	III	Α	Yes	. 1	.55-1(h)	G
Camphor oil (light)	СРО	18	0	D	11	Α	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	III	Α	No	N/A	No '	G
Caustic potash solution	CPS	5 ²	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	5 ²	0	NA	III	A	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	0	E	Ш	A	No	N/A	.50-73	G
Chlorobenzene	CRB	36	0	D	III	A	Yes	1	No	G
Chloroform	CRF	36	0	NA	III	Α	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	İII	A	Yes	1	.50-73	G
Creosote	CCW	21 2	0	E	III	Α.	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	E	III	Α	Yes	1	· No	G
Cresylate spent caustic	CSC	5	0	NA	III	A	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX		0	E	111	A	Yes	1	.55-1(f)	G .
Crotonaldehyde	CTA	19 ²	0	Ċ	11	. A	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	III	A	No	N/A	No	G
Cyclohexanone	ССН	18	0	D	III	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	III	A	Yes	1	.56-1 (b)	G
Cyclohexylamine	CHA	7	0	D	III	Α	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	III	Α	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	E	111	A	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G

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



Dated:

C2-0901134 10-Apr-09

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 13021B

Official #: 1218294

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Shipyard: TRINITY

Cargo Identification)	40				Conditions of Carriage						
		-					Vapor Re					
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		
Dichlorobenzene (all isomers)	DBX	36	0	Е	III .	A	Yes	3	.56-1(a), (b)	G		
1,1-Dichloroethane	DCH	. 36	0	С	Ш	Α	Yes	1	No	G		
2,2'-Dichloroethyl ether .	DEE	41	0	D	II	Α	Yes	1	.55-1(f)	G .		
Dichloromethane	DCM	36	0	NA	111	Α	Yes	5	No	G		
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Е	III	Α	No	N/A	.56-1(a), (b), (c), (g)	G		
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2	0	Α	III	Α	No	N/A	.56-1(a), (b), (c), (g)	G		
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	0	E	111	A	No	N/A	.56-1(a), (b), (c), (g)	G		
1,1-Dichloropropane	DPB	36	0	С	III	A	Yes	3	. No	G		
1,2-Dichloropropane	DPP	36	0		III	Α	Yes	3	No	G		
1,3-Dichloropropane	DPC	36	0	C	111	A	Yes	3	No	G		
1,3-Dichloropropene	DPU	15	0		11	A	Yes	4	No	G		
Dichloropropene, Dichloropropane mixtures	DMX		0	C	11	A	Yes	1	No	G		
Diethanolamine	DEA	8		E			Yes	1	.55-1(c)	G		
Diethylamine	DEN	7	0	C	111	A	Yes	3	.55-1(c)	G		
Diethylenetriamine	DEN	7 2	0	E	III	A	Yes	1	.55-1(c)	G		
	DBU	7	-0	 D					.55-1(c)			
Diisobutylamine	DIP				- 111	A	Yes	3		G		
Diisopropanolamine		8	0	E	111	A	Yes	1	.55-1(c)			
Diisopropylamine	DIA	7	0	C	- 11	Α	Yes	3	.55-1(c)	G		
N,N-Dimethylacetamide	DAC	10	0	E	111	A	Yes	3	.56-1(b)	G		
Dimethylethanolamine	DMB	8	0	D	- 111	Α	Yes	1	.56-1(b), (c)	G		
Dimethylformamide	DMF	10	0	D	Ш	Α	Yes	1	.55-1(e)	G		
Di-n-propylamine	DNA	7	0	С	ll l	Α	Yes	3	.55-1(c)	G		
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	III	Α	No	N/A	.56-1(b)	G		
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	П	Α	No	N/A	No	G		
EE Glycol Ether Mixture	EEG	40	0	D	111	Α	No	N/A	No	G		
Ethanolamine	MEA	8	0	E	III ·	Α	Yes	1	.55-1(c)	G		
Ethyl acrylate	EAC	14	0	С	Ш	Α	Yes	2	50-70(a), 50-81(a), (b)	G		
Ethylamine solution (72% or less)	EAN	7	0	Α	- 11	Α	Yes	6	.55-1(b)	G		
N-Ethylbutylamine	EBA	7	0	D	. III	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	Е	111	Α	Yes	1	No	G		
Ethylenediamine	EDA	7 2	0	D	III	. A	Yes	1	.55-1(c)	G		
Ethylene dichloride	EDC	36 ²	0	С	111	Α	Yes	1	No	G		
Ethylene glycol hexyl ether	EGH	40	0	E	III	Α	No	N/A	No	G		
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	III	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	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G		
Ethyl methacrylate	ETM	14	0	D/E	- [[]	Α	Yes	2	.50-70(a)	G		
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	III	A	Yes	1	No .	G		
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	111	A	Yes	1	.55-1(h)	G		
Furfural	FFA	19	0	D	111	A	Yes	1	.55-1(h)	G		
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	- 111	A	No	N/A	No	G		
Hexamethylenediamine solution	HMC	7	0	E	111	A	Yes	1	.55-1(c)	G		
Hexamethyleneimine	HMI	7	0	c	<u>;;;</u>	A	Yes	1	.56-1(b), (c)	G		
Hydrocarbon 5-9	HFN		0	C		A	Yes	1	.50-70(a), .50-81(a), (b)	G		
Isoprene	IPR	30	0		111		Yes	7	.50-70(a), .50-81(a), (b)	G		
Isoprene, Pentadiene mixture	IPN		0	В	111	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		A	No	N/A	.50-73, .56-1(a), (c), (g)	G		
Mesityl oxide	MSO	18 ²	0	D	111	Α	Yes	1	No	G		



Certificate of Inspection

Cargo Authority Attachment

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Official #: 1218294

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Shipyard: TRINITY

C2-0901134

10-Apr-09

Dated:

Cargo Identification	n .							Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor R App'd (Y or N)	ecovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp Peri
Methylcyclopentadiene dimer	MCK	30	0	С	III	Α	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	E	111	Α	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	E	111	Α	Yes	1	.55-1(e)	G
Methyl methacrylate	MMM	14	0	С	Ш	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	. 111	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
1- or 2-Nitropropane	NPM	42	0	D	111	Α	Yes	1	.50-81	G
1,3-Pentadiene	PDE	30	0	Α	III	Α	Yes	7	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	III	Α Α	No	N/A	No	G
Polyethylene polyamines	PEB	7 2	0	E	III	A	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	 E	III	Α	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0		 III	A	Yes	1	.56-1(b), (c)	G
iso-Propylamine	IPP	7	0		11	A	Yes	5	.55-1(c)	G
Pyridine	PRD	9	0	C	III	A	Yes	-1	.55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		, 0		. III	A	No	N/A	.50-73, .55-1(j)	G
Sodium aluminate solution (45% or less)	SAU	5	0	NA	III	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 hypochlorite solution (20% or less)	SHQ	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (b)	G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2		NA	III	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		NA	III	A	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA		Α	No	N/A	.50-73, .55-1(b)	G
Styrene (crude)	STX		0	D	III	Α	Yes	2	No	G
Styrene monomer	STY	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	III	A	No	N/A	No	G
Tetraethylenepentamine	TTP	7	0	E	III	A	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0		111	A	Yes	1	.50-70(b)	G
Toluenediamine	TDA	9	0	E	 	A	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G
1,2,4-Trichlorobenzene	TCB	36	0	E	111	A	Yes	1	No	G
1,1,2-Trichloroethane	TCM	36	0	NA NA	 III	A	Yes	1	.50-73, .56-1(a)	G
Trichloroethylene	TCL	36 ²	0	NA	- 111	A	Yes	1	No	G
1,2,3-Trichloropropane	TCN	36	0	E	111	Α.	Yes	3	.50-73, .56-1(a)	G
Triethanolamine	TEA	8 ²	0	E	III	Α.		1	.55-1(b)	G
Triethylamine	TEN	7	0	C			Yes		.55-1(e)	G
		7 2	0		11	A	Yes	3	.55-1(b)	G
Triethylenetetramine	TET			E		A	Yes	1		
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	- 111	Α	No	N/A	.56-1(a), (b), (c) .50-73, .56-1(a), (c).	G
Trisodium phosphate solution	TSP	5	0	NA	- 111	A	No	N/A		G G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA.		A	No	N/A	.56-1(b)	
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA		A	No	N/A	.50-73, .56-1(a), (c), (g)	G
Vinyl acetate	VAM	13	0	С		Α .	Yes	2	.50-70(a), .50-81(a), (b)	G
Vinyl neodecanate	VND	13	0	E		A	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
Subchapter D Cargoes Authorized for Vapor Contro	ol	1		2					9	
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		
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	Е		Α	Yes	1		
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1		



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 13021B

Official #: 1218294

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Shipyard: TRINITY

C2-0901134

Cargo Identificatio	n					Conditions of Carriage						
				T		Vapor Recovery						
Name	Chem Code	Compat Group No	Sub Chapte	r Grade	Hull Type	Tank Group	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1	·			
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	Е	- 1	Α	Yes	. 1				
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		D	D		Α	Yes	1	5			
Butyl alcohol (sec-)	BAS		D	С		Α	Yes	1				
Butyl alcohol (tert-)	BAT		D	С	•	Α	Yes	1	2			
Butyl benzyl phthalate	BPH	34	D	E		Α	Yes	1	6			
Butyl toluene	BUE	32	D	D	-	Α	Yes	1				
Caprolactam solutions	CLS	22	D	E		A	Yes	1				
Cyclohexane	CHX	31	D	С		Α	Yes	1				
Cyclohexanol	CHN	20	D	E		A	Yes	1				
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		A	Yes	2				
p-Cymene	CMP	32	D	D		A	Yes	1				
iso-Decaldehyde	IDA	19	D	E		A	Yes	1				
n-Decaldehyde	DAL	19	D .	 E		A	Yes	1				
Decene	DCE	- 30	D			A	Yes	1	, , , , , , , , , , , , , , , , , , , 	-		
Decyl alcohol (all isomers)	DAX	20 2		E			Yes	1				
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes	1				
Diacetone alcohol	DAA	20 ²	D	D		A	Yes	1				
ortho-Dibutyl phthalate	DPA	34	D	E		A	Yes	1				
Diethylbenzene	DEB	32	D			A A	Yes		· · · · · · · · · · · · · · · · · · ·			
Diethylene glycol	DEG	40 ²		E		A		1				
Diisobutylene	DBL	30	D	C			Yes	1				
Diisobutyl ketone	DIK	18	D	D		A	Yes	1				
Diisopropylbenzene (all isomers)	DIX	32	D	E		A	Yes	. 1				
Dimethyl phthalate	DTL	34	D	E		-						
Dioctyl phthalate	DOP	34	D			A	Yes	1				
Dipentene	DPN	30	D D	E D		A	Yes	1	1°			
Diphenyl						Α	Yes	1				
Diphenyl, Diphenyl ether mixtures	DIL	32	D	D/E		A	Yes	1				
	DDO	33	D	E (5)		A	Yes	1				
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1				
Dipropylene glycol Distillates: Flashed feed stocks	DPG	40	D	E		A	Yes	1				
	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, see Alkyl(C9+)benzenes	DDB	32	D	E		Α .	Yes	1				
2-Ethoxyethyl acetate	EEA	34	D	D		A	Yes	1				
Ethoxy triglycol (crude)	ETG	40	D	E	•	Α	Yes	1				
Littyracetate	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		A	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		A	Yes	<u> </u>				
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1		141		
Ethylene glycol	EGL	20 ²	D	E		Α	Yes	1				



ial #: C2-0901134 ated: 10-Apr-09

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 13021B

Official #: 1218294

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Shipyard: TRINITY

Ethylene glycol butyl ether acetate EGY 34 Ethylene glycol diacetate EGY 34 Ethylene glycol phenyl ether EPE 40 Ethyl-3-ethoxypropionate EEP 34 2-Ethylhexanol EHX 20 Ethyl propionate EPR 34 Ethyl ropionate EPR 34 Ethyl toluene ETE 32 Formamide FAM 10 Furfuryl alcohol FAL 20 2 Gasoline blending stocks: Alkylates GAK 33 Gasolines blending stocks: Reformates GRF 33 Gasolines: Automotive (containing not over 4.23 grams lead per gallon) Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) Gasolines: Casinghead (natural) GCS 33 Gasolines: Polymer GPL 33 Gasolines: Straight run GSR 33 Gasolines: Straight run GSR 33 Heptanoic acid HEP 4 Heptanoic (all isomers), see Alkanes (C6-C9) (all isomers) HMX 31 Heptene (all isomers) HPX 30 Heptene (all isomers), see Alkanes (C6-C9) HXS 31 Hexanoic acid HPE 34 Hexanoic acid HPE 34 Hexanoic acid HXN 20 Heptene (all isomers), see Alkanes (C6-C9) HXS 31 Heptanoic acid HXN 20 Heptene (all isomers) HXN 20 Hexanoic acid HXN 20 Hexanoic acid HXN 20 Hexanoic acid HXN 20 Hexanoic acid HXN 20 Hexanoic HXN 31 Hexanoic HXN 20 Hexanoic HXN 20 Hexanoic HXN 20 HxN 31 Hexanoic HXN 20 HxN 30 Sub chapter Grade D E D E D E D D D C D D D E D A/C D A/C D A/C D A/C D A/C D A/C D E D C D E D D/E D E D B/C D E D C D E D C D E D E D E D E D E D E D E D E D E D E D E <t< th=""><th>Hull Type</th><th>Tank Group A A A A A A A A A A A A A A A A A A A</th><th>App'd</th><th>Recovery VCS Category 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th><th>Special Requirements in 46 CFR y 151 General and Mat'ls of</th><th>Insp. Period</th></t<>	Hull Type	Tank Group A A A A A A A A A A A A A A A A A A A	App'd	Recovery VCS Category 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Special Requirements in 46 CFR y 151 General and Mat'ls of	Insp. Period	
Ethylene glycol butyl ether acetate EMA 34 Ethylene glycol diacetate EGY 34 Ethylene glycol plenyl ether EPE 40 Ethyl-3-ethoxypropionate EEP 34 2-Ethylhexanol EHX 20 Ethyl propionate EPR 34 Ethyl toluene ETE 32 Formamide FAM 10 Furfuryl alcohol FAL 20 2 Gasoline blending stocks: Alkylates GAK 33 Gasolines: Automotive (containing not over 4.23 grams lead per gallon) Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) Gasolines: Casinghead (natural) GCS 33 Gasolines: Straight run GSR 33 Glycerine GCR 20 2 Heptane (all isomers), see Alkanes (C6-C9) (all isomers) HMX 31 Heptanol (all isomers) Heptanol (all isomers), see Alkanes (C6-C9) Heptane (all isomers), see Alkanes (C6-C9) Hexanol HEX 30 HEX 30 HEX 30 HEX 30 HEX	Chapter Grade D E D E D D D D D C D D D E D A/C D A/C D A/C D A/C D A/C D A/C D C D C D C D C D B/C D C D C D C D C D C D C D C D C D C D C D C D C D C D C D C D C D <th></th> <th>Group A A A A A A A A A A A A A A A A A A A</th> <th>Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes</th> <th>Category 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th> <th>Special Requirements in 46 CFR y 151 General and Mat'ls of</th> <th></th>		Group A A A A A A A A A A A A A A A A A A A	Yes	Category 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Special Requirements in 46 CFR y 151 General and Mat'ls of	
Ethylene glycol phenyl ether EGY 34 Ethylene glycol phenyl ether EPE 40 Ethyl-3-ethoxypropionate EEP 34 2-Ethylhexanol EHX 20 Ethyl propionate EPR 34 Ethyl propionate EPR 34 Ethyl toluene ETE 32 Formamide FAM 10 Furfuryl alcohol FAL 20 ² Gasoline blending stocks: Alkylates GAK 33 Gasoline blending stocks: Reformates GRF 33 Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT 33 Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV 33 Gasolines: Casinghead (natural) GCS 33 Gasolines: Polymer GPL 33 Gasolines: Straight run GSR 33 Glycerine GCR 20 ² Heptanoic (all isomers), see Alkanes (C6-C9) (all isomers) HMX 31 Heptanoic (all isomers) HPX 30 <td< th=""><th>D E D E D D D E D C D A/C D B D C D B D C D B D C D B D C D B D C D B D C D B D C D B D C D B D B C D B D B C D B D B C D B D B D B D B D B D B D B D B D B D B</th><th></th><th>A A A A A A A A A A A A A A A A A A A</th><th>Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes</th><th>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th><th></th><th></th></td<>	D E D E D D D E D C D A/C D B D C D B D C D B D C D B D C D B D C D B D C D B D C D B D C D B D B C D B D B C D B D B C D B D B D B D B D B D B D B D B D B D B		A A A A A A A A A A A A A A A A A A A	Yes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
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Ethyl toluene ETE 32 Formamide FAM 10 Furfuryl alcohol FAL 20 °2 Gasoline blending stocks: Alkylates GAK 33 Gasolines lending stocks: Reformates GRF 33 Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT 33 Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV 33 Gasolines: Casinghead (natural) GCS 33 Gasolines: Polymer GPL 33 Gasolines: Straight run GSR 33 Glycerine GCR 20 °2 Heptane (all isomers), see Alkanes (C6-C9) (all isomers) HMX 31 Heptanol (all isomers) HTX 20 Heptanol (all isomers) HPX 30 Heptyl acetate HPE 34 Hexanol (all isomers), see Alkanes (C6-C9) HXS 31 °2 Hexanol (all isomers) HEX 30 Hexanol (all isomers) HEX 30 Hexene (all isomers) HEX 30	D D E D A/C D B D C D B D C D B D C D B C D B/C D B C D B C D D C D B C D D C D B C D D C D E D D C D E D D C D E D D C D E		A A A A A A A A A A A	Yes	1 1 1 1 1 1 1 1 1 1 1 1 2 1 1		
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gallon) GCS 33 Gasolines: Casinghead (natural) GCS 33 Gasolines: Polymer GPL 33 Gasolines: Straight run GSR 33 Glycerine GCR 20 ² Heptane (all isomers), see Alkanes (C6-C9) (all isomers) HMX 31 Heptanoic acid HEP 4 Heptanoi (all isomers) HTX 20 Heptene (all isomers) HPX 30 Heptyl acetate HPE 34 Hexane (all isomers), see Alkanes (C6-C9) HXS 31 ² Hexanoic acid HXO 4 Hexanol HXN 20 Hexene (all isomers) HEX 30 Hexplene glycol HXG 20 Isophorone IPH 18 ² Jet fuel: JP-4 JPF 33 Jet fuel: JP-5 (kerosene, heavy) JPV 33 Methyl acetate MTT 34 Methyl alcohol MAC 34	D A/C D A/C D A/C D E D C D E D C D E D C D E D C D E D C D E D C D E D C D E D B/C D E D C D E D E D E D E D E D E		A A A A A A A A A	Yes	1 1 1 1 1 1 1 2 1 1		
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Heptane (all isomers), see Alkanes (C6-C9) (all isomers) HMX 31 Heptanoic acid HEP 4 Heptanol (all isomers) HTX 20 Heptene (all isomers) HPX 30 Heptyl acetate HPE 34 Hexane (all isomers), see Alkanes (C6-C9) HXS 31 ² Hexanoic acid HXO 4 Hexanol HXN 20 Hexene (all isomers) HEX 30 Hexene (all isomers) HEX 30 Hexplere glycol HXG 20 Isophorone IPH 18 ² Jet fuel: JP-4 JPF 33 Jet fuel: JP-5 (kerosene, heavy) JPV 33 Kerosene KRS 33 Methyl acetate MTT 34 Methyl alcohol MAL 20 ² Methylamyl acetate MAC 34	D C D E D D/E D C D E D B/C D E D D C D E D C D E D D E D D C D E		A A A A A	Yes Yes Yes Yes Yes Yes Yes Yes	1 1 1 2 1 1		
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Heptene (all isomers) HPX 30 Heptyl acetate HPE 34 Hexane (all isomers), see Alkanes (C6-C9) HXS 31 ² Hexanoic acid HXO 4 Hexanoi HXN 20 Hexene (all isomers) HEX 30 Hexylene glycol HXG 20 Isophorone IPH 18 ² Jet fuel: JP-4 JPF 33 Jet fuel: JP-5 (kerosene, heavy) JPV 33 Kerosene KRS 33 Methyl acetate MTT 34 Methyl alcohol MAL 20 ² Methylamyl acetate MAC 34	D C D E D B/C D E D D C D C D E		A A A	Yes Yes Yes Yes	2 1 1 1		
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Hexane (all isomers), see Alkanes (C6-C9) HXS 31 ² Hexanoic acid HXO 4 Hexanol HXN 20 Hexene (all isomers) HEX 30 Hexylene glycol HXG 20 Isophorone IPH 18 ² Jet fuel: JP-4 JPF 33 Jet fuel: JP-5 (kerosene, heavy) JPV 33 Kerosene KRS 33 Methyl acetate MTT 34 Methyl alcohol MAL 20 ² Methylamyl acetate MAC 34	D B/C D E D C D E		A A	Yes Yes Yes	1 1 1		
Hexanoic acid HXO 4 Hexanol HXN 20 Hexene (all isomers) HEX 30 Hexylene glycol HXG 20 Isophorone IPH 18 ² Jet fuel: JP-4 JPF 33 Jet fuel: JP-5 (kerosene, heavy) JPV 33 Kerosene KRS 33 Methyl acetate MTT 34 Methyl alcohol MAL 20 ² Methylamyl acetate MAC 34	D E D C D E		A A	Yes Yes	1		
Hexanoic acid HXO 4 Hexanol HXN 20 Hexene (all isomers) HEX 30 Hexylene glycol HXG 20 Isophorone IPH 18 ² Jet fuel: JP-4 JPF 33 Jet fuel: JP-5 (kerosene, heavy) JPV 33 Kerosene KRS 33 Methyl acetate MTT 34 Methyl alcohol MAL 20 ² Methylamyl acetate MAC 34	D D D C D E		Α	Yes.	1		
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Isophorone IPH 18 ² Jet fuel: JP-4 JPF 33 Jet fuel: JP-5 (kerosene, heavy) JPV 33 Kerosene KRS 33 Methyl acetate MTT 34 Methyl alcohol MAL 20 ² Methylamyl acetate MAC 34			Á	Yes	1		
Jet fuel: JP-4 JPF 33 Jet fuel: JP-5 (kerosene, heavy) JPV 33 Kerosene KRS 33 Methyl acetate MTT 34 Methyl alcohol MAL 20 ² Methylamyl acetate MAC 34		-	Α	Yes	1		
Jet fuel: JP-5 (kerosene, heavy) JPV 33 Kerosene KRS 33 Methyl acetate MTT 34 Methyl alcohol MAL 20 ² Methylamyl acetate MAC 34	D E		Α	Yes	1		
Kerosene KRS 33 Methyl acetate MTT 34 Methyl alcohol MAL 20 ² Methylamyl acetate MAC 34	D D		A	Yes	1		
Methyl acetate MTT 34 Methyl alcohol MAL 20 ² Methylamyl acetate MAC 34	D D		Α	Yes	1		
Methyl alcoholMAL20 ²Methylamyl acetateMAC34	D D		A	Yes	1		
Methylamyl acetate MAC 34	D C		A	Yes	1		
	D D			Yes	1		
Wietrylarry alcohol	D D		A	Yes	1		
Methyl amyl ketone MAK 18	D D	-	A	Yes	1		
	D C			Yes	1		
	D C		A	Yes	1		
	D C		A	Yes	1		
	D C		A	Yes	1		
	D D				1		
	D C	•	Α	Yes	1		
			A	Yes			
	D E		A	Yes	1		
			A	Yes	1		
•	D D		A	Yes	1		
	D #		A	Yes	1		
•	D #	-	A	Yes	1	- v	
Naphtha: Solvent NSV 33 Naphtha: Stoddard solvent NSS 33	D D			Yes	1		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 13021B

Official #: 1218294

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Shipyard: TRINITY

C2-0901134

10-Apr-09

Dated:

Cargo Identifica	ation							Condi	tions of Carriage	
	01-							Recovery		
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
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		Α	Yes	1		
Nonene (all isomers)	NON	30	D	D		Α	Yes	2	8	
Nonyl alcohol (all isomers)	NNS	20 2	D	E		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), see Alkanes (C6-C9)	OAX	31	D	С	1.	Α	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	E	n p	Α	Yes	1		
Octanol (all isomers)	OCX	20 2	D	E		Α -	Yes	1		. 1
Octene (all isomers)	OTX	30	D	С		Α	Yes	2		
Oil, fuel: No. 2	OTW	33	D	D/E		A	Yes	1		
Oil, fuel: No. 2-D	OTD	33	D	D		Α	Yes	1		
Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1		
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	C/D		Α	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1	7 1	
Oil, misc: Gas, high pour	OGP	33	D	E		Α	Yes	1		
Oil, misc: Lubricating	OLB	33	D	E		A	Yes	1		
Oil, misc: Residual	ORL	33	D	E		Α	Yes	. 1		
Oil, misc: Turbine	ОТВ	33	D	E		A	Yes	1		
Pentane (all isomers)	PTY	31	D	A		A	Yes	5		
Pentene (all isomers)	PTX	30	D	Α .	-	A	Yes	5		
alpha-Pinene	PIO	30	D	D		A	Yes	1		
beta-Pinene	PIP	30	D .	D			Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		Ā	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E			Yes	1.		
Polybutene	PLB	30	D	 E			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			
iso-Propyl alcohol	IPA	20 2	D	C	-			1		
n-Propyl alcohol	PAL	20 ²	D	C		A	Yes	1		
Propylbenzene (all isomers)	PBY	32	D	D		A	Yes	1		
iso-Propylcyclohexane	IPX	31	D	D .			Yes	1		
	PPG	20 2				A	Yes	1		
Propylene glycol	PGN	34	D	E		A .	Yes	1		
Propylene glycol methyl ether acetate			D	D	***	Α	Yes	1		
Propylene tetramer Sulfalana	PTT	30	D	D		A	Yes	1		
Sulfolane Tetraethylene glycol	SFL	39	D	E		A	Yes	1		
, , ,	TTG	40	D	E		A	Yes	1		
Tetrahydronaphthalene	THN	32	D	E		A	Yes	1		
Toluene	TOL	32	D	С		A	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		_ A	Yes	1		
Triethylbenzene	TEB	32	D	E		Α	Yes	1		
Triethylene glycol	TEG	40	D	E		Α .	Yes	1		
Triethyl phosphate	TPS	34	D	E		Α .	Yes	1		
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1		
Trixylenyl phosphate	TRP	34	D	E		A	Yes	11		540
Undecene	UDC	30	D	D/E		Α	Yes	1	3	
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1		



C2-0901134 Dated:

10-Apr-09

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 13021B

Official #: 1218294

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Shipyard: TRINITY

Cargo Identification							Conditions of Carriage				
	Chem	Compat	Sub		Hull	Tank	Vapor F	Recovery	Special Requirements in 46 CFR		
Name		Group No	Chapter	Grade	Туре	Group	(Y or N)	Category	151 General and Mat'ls of	Insp. Perio	
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1			



C2-0901134

10-Apr-09 Dated:

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 13021B

Official #: 1218294

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Shipyard: TRINITY

Hull #: 4633

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

Note 1

Note 2

The dargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables Land 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-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone (202) 372-3425

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

Subchapter Subchapter D 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 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. 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.

NA

NA

Hull Type

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

Vapor Recovery 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 Recovery 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:

Category 1

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

(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 componenets 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 39.20-9 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 1cargoes. 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. (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.