

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

Certification Date: 07 Apr 2020 Expiration Date: 07 Apr 2025

Certificate of Inspection

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

Vessel Name

Official Number

IMO Number

Call Sign

Service

KIRBY 31004B

1252828

Tank Barge

Hailing Port

HOUMA, LA

Hull Material

Steel

Horsepower

Propulsion

UNITED STATES

Place Built

Delivery Date

Keel Laid Date

Gross Tons

Net Tons

DWT

Length

PALACIOS, TX

20Mar2015 12Nov2014

R-1619

R-1295

R-297.5

UNITED STATES

Owner

KIRBY INLAND MARINE LP 55 WAUGH DR STE 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.

OMenter

0 Licensed Mates

0 Chief Engineers

0 Oilers

0 Chief Mates

0 First Class Pilots

0 First Assistant Engineers

0 Second Mates

0 Radio Officers

O Second Assistant Engineers
O Third Assistant Engineers

0 Third Mates

0 Able Seamen

0 Ordinary Seamen

0 Licensed Engineers

0 Master First Class Pilot 0 Mate First Class Pilots

0 Deckhands

0 Qualified Member Engineer

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

Route Permitted And Conditions Of Operation:

--- Lakes, Bays, and Sounds plus Limited Coastwise---

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

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

This tank barge is participating in the Eighth Coast Guard District's Tank Barge Streamlined Inspection Program

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

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

Annual/Periodic/Re-Inspection

Date Zone A/P/R Signature

OU-70-7011 HOU A DWO Worken

C3-30-2012 HOP P. David Worken

3/13/23 | BR Ca A Stephen Cellins

4/14/74 BTR LA A Daylan lalaste

This certificate issued by:

J.J. ANDREW, 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

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Vessel Name: KIRBY 31004B

(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.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Mar2025

20Mar2015

Internal Structure

31Mar2025

Α

07Apr2020

20Mar2015

--- 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

31261

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)
1P		1.63
18		1.63
2P		1.63
28		1.63
3P		1.63
3S		1.63

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
11	4249	10ft 3in	13.6	LBS, LC
II	4249	10ft 3in	13.6	R
Ш	4627	11ft Oin	13.6	LBS, LC
UL	4627	11ft 0in	13.6	R

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), serial # C1-1401818, dated 28 May 2014, may be carried and then 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 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 # C1-1404334, dated 2 December, 2014, and found acceptable for collection of bulk

Dept. of Home Sec., USCG, CG-841 (Rev 4-2000)(v2) Page 2 of 3



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

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Certificate of Inspection

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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 162.017/167/3.

Per 46 CFR 39.1017 and 39.5000(e), this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

STABILITY AND TRIM

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

The maximum design density of cargo which may be filled to the tank top is 8.74 lbs/gal. Cargoes with higher densities, up to 13.60 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

--- Inspection Status ---

Cargo Tanks

		Internal Exam			External Exam	1	
	Tank Id	Previous	Last	Next	Previous	Last	Next
	1P	-	20Mar2015	31Mar2025	.=	N a	-
	1S	=	20Mar2015	31Mar2025	•	·-	-
	2P	=	20Mar2015	31Mar2025	=	, š	-
	2S	-	20Mar2015	31Mar2025	=) =	-
	3P	-	20Mar2015	31Mar2025	-	-	-
	3S	-	20Mar2015	31Mar2025	-	-	3 -
				Hydro Test			
	Tank Id	Safety Valves		Previous	Last	Next	
	1P	-		-	-	-	
١	18			-	-	-	
١	2P			-		-	
١	2\$	-		-	-	-	
	3P	-		•	=	-	
	3\$	-		-		=	

--- 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



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 31004B

Shipyard: Tres Palacios Marine

Serial #:

Dated:

C1-1401818

28-May-14

Hull #: 156

Official #: 1252828

R 151 Tank Group Characteristics

Tank Group Information	Cargo I	dentificati	ion		Cargo	1	Tanks		Carg Tran		Environ		Fire	Special Require	ments		
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg	l _	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A #1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	11	1ii 2ii	Integral Gravity	PV	Closed	11	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73	55-1(b), (c), (e), (f), (i), 56-1(a), (b), (c)	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

Cargo Identificatio	n							Condi	tions of Carriage	
							Vapor R			
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										
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	Ε	Н	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	Ш	Α	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	0	E	Ш	Α	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 ²	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	Ш	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	II	Α	No	N/A	No	G
Benzene	BNZ	32	0	С	111	Α	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	Ш	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	Ш	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	111	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)	CPO	18	0	D	11	Α	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	Ш	Α	No	N/A	No	G
Caustic potash solution	CPS	5 ²	0	NA	Ш	Α	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	5 ²	0	NA	Ш	Α	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	0	E	11	Α	No	N/A	.50-73	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	Ш	Α	Yes	1	.50-73	G
Creosote	ccw	21 ²	0	Ε	Ш	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	111	Α	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX		0	E	111	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)	CHG		0	С	Ш	Α	Yes	1	No	G
Cyclohexanone	ССН	18	0	D	Ш	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	Е	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	III	Α	Yes	1	.50-60, .56-1(b)	G

^{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.



Serial #: C1-1401818

28-May-14

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 31004B Official #: 1252828

Page 2 of 8

Shipyard: Tres Palacios Marine

Cargo Identificatio	n							Condi	tions of Carriage	
							Vapor R			
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
iso-Decyl acrylate	IAI	14	0	Е	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	Ε	111	Α	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	Ш	Α	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	Ш	Α	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Ε	Ш	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2	0	Α	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 ²	0	E	III	Α	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	С	Ш	Α	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	С	111	Α	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	111	Α	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	II	Α	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	II	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	Ε	Ш	Α	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	С	III	Α	Yes	3	.55-1(c)	G
Diethylenetriamine	DET	7 ²	0	Е	111	Α	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	III	Α	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	Е	111	Α	Yes	1	.55-1(c)	G
Diisopropylamine	DIA	7	0	С	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	A	Yes	1	.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	11	A	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	#	II	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	111	Α	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0		III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solution (72% or less)	EAN	7	0	Α	II	A	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		111	A	Yes	1	.55-1(b)	
Ethylene cyanohydrin	ETC	20	0	E	III	A	Yes	1	No	
Ethylenediamine	EDA	7 ²	0		111	A	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 ²	0	C		Α	Yes	1	No	G
	EGH	40	0	 E	111	A	No	N/A	No	G
Ethylene glycol hexyl ether	EGC	40	0	D/E		A	Yes	1	No	G
Ethylene glycol monoalkyl ethers					<u>'''</u>		Yes	1	No	G
Ethylene glycol propyl ether	EAI	14	0	E	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G
2-Ethylhexyl acrylate	ETM	14	0	D/E		A	Yes	2	.50-70(a)	G
Ethyl methacrylate	EPA	19 2	0	E	111		Yes	1	No	G
2-Ethyl-3-propylacrolein		19 ²		D/E			Yes	1	.55-1(h)	G
Formaldehyde solution (37% to 50%)	FMS FFA	19 2	0	D/E	 	A A	Yes	1	.55-1(h)	G
Furfural Cluteral debude colution /50% or loss)	GTA	19	0	NA	111		No	N/A	No	G
Glutaraldehyde solution (50% or less)	HMC	19 7	0	E	111	A	Yes	1	.55-1(c)	G
Hexamethylenediamine solution	HMI	7	0		11		Yes	1	.56-1(b), (c)	G
Hexamethyleneimine			0	C	111	A	Yes	1	.50-70(a), .50-81(a), (b)	
Hydrocarbon 5-9	HFN IPR	30				A	No	N/A	.50-70(a), .50-81(a), (b)	G
Isoprene		30	0	A B	111	A		N/A	.50-70(a), .55-1(c)	
Isoprene, Pentadiene mixture	IPN		U	В	111	A	No	N/A		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 31004B

 Shipyard: Tres Palacios Marine

Dated:

C1-1401818

28-May-14

Cargo Identification	1							Condi	tions of Carriage	
							Vapor F	Recovery		
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
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G
Mesityl oxide	MSO	18 ²	0	D	Ш	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-ethylpyridine	MEP	9	0	Ε	Ш	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	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 2	0	D	Ш	Α	Yes	1	.55-1(c)	G
Nitroethane	NTE	42	0	D	II	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
1,3-Pentadiene	PDE	30	0	Α	111	Α	No	N/A	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	Ш	Α	No	N/A	No	G
Polyethylene polyamines	PEB	7 2	0	E	111	Α	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	Е	Ш	Α	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	Е	Ш	Α	Yes	1	.56-1(b), (c)	G
iso-Propylamine	IPP	7	0	Α	II	Α	Yes	5	.55-1(c)	G
Pyridine	PRD	9	0	С	111	Α	Yes	1	.55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium	SAP		0		III	Α	No	N/A	.50-73, .55-1(j)	G
Hydroxide)	·		_							
Sodium aluminate solution (45% or less)	SAU	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	Ш	Α	No	N/A	.50-73	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	Ш	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
Styrene (crude)	STX		0	D	111	Α	Yes	2	No	G
Styrene monomer	STY	30	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	111	Α	No	N/A	No	G
Tetraethylenepentamine	TTP	7	0	E	Ш	Α	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	С	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
1,2,4-Trichlorobenzene	ТСВ	36	0	E	Ш	Α	Yes	1	No	G
1,1,2-Trichloroethane	TCM	36	0	NA	111	Α	Yes	1	.50-73, .56-1(a)	G
Trichloroethylene	TCL	36 ²	0	NA	Ш	Α	Yes	1	No	G
1,2,3-Trichloropropane	TCN	36	0	E	II	Α	Yes	3	.50-73, .56-1(a)	G
Triethanolamine	TEA	8 ²	0	E	III	Α	Yes	1	.55-1(b)	G
Triethylamine	TEN	7	0	С	11	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	III	Α	No	N/A	.56-1(a), (b), (c)	G
Trisodium phosphate solution	TSP	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c).	G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	III	A	No	N/A	.56-1(b)	G
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	 III	A	No	N/A	.50-73, .56-1(a), (c), (g)	G
Vinyl acetate	VAM	13	0	C	 III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Vinyl neodecanate	VND	13	-0	E	111	A	No	N/A	.50-70(a), .50-81(a), (b)	G
Vinyltoluene	VNT	13	-0			A	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (
villyitoluene	VIVI	10					103			



Serial #: C1-1401818

Dated: 28-May-14

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 31004B
Official #: 1252828

Page 4 of 8

Shipyard: Tres Palacios Marine

Cargo Identificatio	n	,	,	,					tions 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	Insp. Period
Subchapter D Cargoes Authorized for Vapor Contr	ol									-
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		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1		
Benzyl alcohol	BAL	21	D	Е		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		
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	E		Α	Yes	1		
Cyclohexane	CHX	31	D	С		Α	Yes	1		
Cyclohexanol	CHN	20	D	E		Α	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2		
p-Cymene	CMP	32	D	D		Α	Yes	1		
iso-Decaldehyde	IDA	19	D	Е		Α	Yes	1		
n-Decaldehyde	DAL	19	D	Е		Α	Yes	1		
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	D		Α	Yes	1		
Diethylene glycol	DEG	40 ²	D	Е		Α	Yes	1		
Diisobutylene	DBL	30	D	С		Α	Yes	1		
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	Е		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	E		Α	Yes	1	enterent and the second of the	
Dipentene	DPN	30	D	D		Α	Yes	1		
Diphenyl	DIL	32	D	D/E		Α	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		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, see Alkyl(C9+)benzenes	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		



Dated:

C1-1401818 28-May-14

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 31004B

Official #: 1252828

Page 5 of 8

Shipyard: Tres Palacios Marine

Chem Compat Com	Insp. Period
Code Group No Chapter Grade Type Group (Y or N) Category 151 General and Mattis of	
Ethyl acetoacetate EAA 34 D E A Yes 1 Ethyl alcohol EAL 20 ° D C A Yes 1 Ethylbenzene ETB 32 D C A Yes 1 Ethyl butanol EBT 20 D D A Yes 1 Ethyl tert-butyl ether EBE 41 D C A Yes 1 Ethyl butyrate EBR 34 D D A Yes 1 Ethyl cyclohexane ECY 31 D D A Yes 1 Ethylene glycol EGL 20 ° 2 D E A Yes 1 Ethylene glycol butyl ether acetate EMA 34 D E A Yes 1 Ethylene glycol diacetate EGY 34 D E A Yes 1 Ethylene glycol phenyl ether EPE 40 D	
Ethyl alcohol EAL 20 ² D C A Yes 1 Ethylbenzene ETB 32 D C A Yes 1 Ethyl butanol EBT 20 D D A Yes 1 Ethyl tert-butyl ether EBE 41 D C A Yes 1 Ethyl tert-butyl ether EBR 34 D D A Yes 1 Ethyl cyclohexane ECY 31 D D A Yes 1 Ethylene glycol EGL 20 ² D E A Yes 1 Ethylene glycol butyl ether acetate EMA 34 D E A Yes 1 Ethylene glycol diacetate EGY 34 D E A Yes 1 Ethylene glycol phenyl ether EPE 40 D E A Yes 1 Ethyle-3-ethoxypropionate EEP <td< td=""><td></td></td<>	
Ethylbenzene ETB 32 D C A Yes 1 Ethyl butanol EBT 20 D D A Yes 1 Ethyl tert-butyl ether EBE 41 D C A Yes 1 Ethyl butyrate EBR 34 D D A Yes 1 Ethyl cyclohexane ECY 31 D D A Yes 1 Ethylene glycol EGL 20 2 D E A Yes 1 Ethylene glycol butyl ether acetate EMA 34 D E A Yes 1 Ethylene glycol diacetate EGY 34 D E A Yes 1 Ethylene glycol phenyl ether EPE 40 D E A Yes 1 Ethyl-3-ethoxypropionate EEP 34 D D A Yes 1	
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Ethylene glycol phenyl ether EPE 40 D E A Yes 1 Ethyl-3-ethoxypropionate EEP 34 D D A Yes 1	
Ethyl-3-ethoxypropionate EEP 34 D D A Yes 1	
2 Ethylhevanol EHY 20 D E A Vec 1	
2-Ethylhexanol EHX 20 D E A Yes 1	
Ethyl propionate EPR 34 D C A Yes 1	
Ethyl toluene ETE 32 D D A Yes 1	
Formamide FAM 10 D E A Yes 1	
Furfuryl alcohol FAL 20 ² D E A Yes 1	
Gasoline blending stocks: Alkylates GAK 33 D A/C A Yes 1	
Gasoline blending stocks: Reformates GRF 33 D A/C A Yes 1	
Gasolines: Automotive (containing not over 4.23 grams lead per GAT 33 D C A Yes 1 gallon)	
Gasolines: Aviation (containing not over 4.86 grams of lead per GAV 33 D C A Yes 1 gallon)	
Gasolines: Casinghead (natural) GCS 33 D A/C A Yes 1	
Gasolines: Polymer GPL 33 D A/C A Yes 1	
Gasolines: Straight run GSR 33 D A/C A Yes 1	
Glycerine GCR 20 ² D E A Yes 1	
Heptane (all isomers), see Alkanes (C6-C9) (all isomers) HMX 31 D C A Yes 1	
Heptanoic acid HEP 4 D E A Yes 1	
Heptanol (all isomers) HTX 20 D D/E A Yes 1	
Heptene (all isomers) HPX 30 D C A Yes 2	
Heptyl acetate HPE 34 D E A Yes 1	
Hexane (all isomers), see Alkanes (C6-C9) HXS 31 ² D B/C A Yes 1	
Hexanoic acid HXO 4 D E A Yes 1	
Hexanol HXN 20 D D A Yes 1	
Hexene (all isomers) HEX 30 D C A Yes 2	
Hexylene glycol HXG 20 D E A Yes 1	
Isophorone IPH 18 ² D E A Yes 1	
Jet fuel: JP-4 JPF 33 D E A Yes 1	
Jet fuel: JP-5 (kerosene, heavy) JPV 33 D D A Yes 1	
Kerosene KRS 33 D D A Yes 1	
Methyl acetate MTT 34 D D A Yes 1	
Methyl alcohol MAL 20 ² D C A Yes 1	
Methylamyl acetate MAC 34 D D A Yes 1	
Methylamyl alcohol MAA 20 D D A Yes 1	
Methyl amyl ketone MAK 18 D D A Yes 1	
Methyl tert-butyl ether MBE 41 ² D C A Yes 1	
Methyl butyl ketone MBK 18 D C A Yes 1	



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 31004B
Official #: 1252828

Page 6 of 8

Shipyard: Tres Palacios Marine

Serial #: C1-1401818

28-May-14

Cargo Identifica	ation							Condi	tions of Carriage	
								Recovery		T
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
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	#		Α	Yes	1		
Naphtha: Petroleum	PTN	33	D	#		Α	Yes	1		
Naphtha: Solvent	NSV	33	D	D		Α	Yes	1		
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes	1		
Nonene (all isomers)	NON	30	D	D		Α	Yes	2		
Nonyl alcohol (all isomers)	NNS	20 ²		E		Α	Yes	1		
Nonyl phenol	NNP	21	D	E	-	A	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		Α	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D			Α	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	E		A	Yes	1		
Octanol (all isomers)	OCX	20 ²	D	 E		Α	Yes	1		
Octene (all isomers)	OTX	30		C		Α	Yes	2		
Oil, fuel: No. 2	OTW	33	D	D/E		Α	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		A	Yes	1		
Oil, fuel: No. 6	OSX	33	D	E		A	Yes	1		
Oil, misc: Crude	OIL	33	D	C/D		A	Yes	1		
Oil, misc: Diesel	ODS	33		D/E		A	Yes	1		
Oil, misc: Gas, high pour	OGP	33	D	E		A	Yes	1		
	OLB	33		E			Yes	1		
Oil, misc: Lubricating Oil, misc: Residual	ORL	33	D	E		A	Yes	1		
	OTB	33	D	E		A		1		
Oil, misc: Turbine	PTX	30	D	Α		A	Yes	5		
Pentene (all isomers)	PPE	34	D	D						
n-Pentyl propionate				D		Α	Yes	1		
alpha-Pinene	PIO	30	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		A	Yes	1		
iso-Propyl acetate	IAC	34	D	С		Α	Yes	1		
n-Propyl acetate	PAT	34	D			Α	Yes	1		
iso-Propyl alcohol	IPA	20 ²	D	С		A	Yes	1		
n-Propyl alcohol	PAL	20 ²	D	С		Α	Yes	1		
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1		
iso-Propylcyclohexane	IPX	31	D	D		A	Yes	1		
Propylene glycol	PPG	20 ²	D	E		Α	Yes	1		
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1		



Serial #: C1-1401818

28-May-14

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 31004B

Official #: 1252828

Page 7 of 8

Shipyard: Tres Palacios Marine

Cargo Identific	ation							Condi	tions 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	Insp. Period
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		
Tetrahydronaphthalene	THN	32	D	E		Α	Yes	1		
Toluene	TOL	32	D	С		Α	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		Α	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	Ε		Α	Yes	1		
Undecene	UDC	30	D	D/E		Α	Yes	1		
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1		



Page 8 of 8

Serial #: C1-1401818 Dated:

28-May-14

Certificate of Inspection

Vessel Name: Kirby 31004B Official #: 1252828

Cargo Authority Attachment

Shipyard: Tres Palacios

Hull #: 156

Explanation of terms & symbols used in the Table:

Cargo Identification

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.

none

The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual. Certain mixtures of cargoes may not have a CHRIS Code assigned.

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

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

Note 2

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

Subchapter Subchapter D Subchapter O 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

A, B, C

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

Note 4

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

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 Recover 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

Vapor Recoven 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 1570, 48 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 Category 5

(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.

Category 6

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

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

Category 7 none

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