

United States of America Department of Homeland Security United States Coast Guard Certification Date:15 Jul 2022Expiration Date:15 Jul 2027

# Certificate of Inspection

For ships on international voyages this contribute fulfills the requirements of SOLAS 74 as amanuad, regutation V/14, for a SAFE MANNING BOCUMENT.

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0 Certified Life	boatmen, 0 Cert	ified Tanki	ermen, 0 HSC	Type Rating	, and 0 GMC	ISS Operators.		
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Route Permi	tted And Condif	tions Of C	peration:					
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Carrabelle, 1	floride.							
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Inspection P. Tank Barbe Ac	cogram (TESIP). stion Pian (TAE	. inspect: ?). Inspec	ron accivitis rion issues	es apparo ti concerning	this barga	should be di	cecced to 0	ordance with its CMI Houston-
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I Inspaction, Ho	uston-Galveston	centilied h	ne voasel, in a	ill respects, is	in conformit	y with the appli	cable vessel	inspection laws and
the rules and i	equiations press Annual/Period	lio/Re-Insi	section	*******	This certific	ate issued by:	the second	
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Date 5-10-2023	NOLA	A	Munny BR	WKO		tianna inspection	279794-18794-1629-04068-1899-94-466-466-466-466-466-466-466-466-46	ĸĸĸĸŎġĸĸ <b>₩ĸ</b> ŢĸĊĸĬĸĸŢŦŎġġĸŎţĊŔĊŎĊŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎ
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United States of America Department of Homeland Security United States Coast Guard Certification Date:15 Jul 2022Expiration Date:15 Jul 2027

Certificate of Inspection

Vessel Name: KIRBY 10230

Hull Exam	s				
Exam Type	Next E	Exam	Last Exam	Prior Ex	am
DryDock	30Jun	2027	23Jun2022	06Jun20	)12
Internal Structure	e 30Jun	2025	23Jun2022	29Jun20	)17
Liquid/Ga	s/Solid Cargo A	Authority/Conditi	ions		
Authorization:	GRADE A AND LO	WER AND SPECIFIE	D HAZARDOUS CA	RGOES	
Total Capacity	Units	Highest Grade Type	Part151 Regulate	d Part153 Regulated	Part154 Regulated
10300	Barrels	A	Yes	No	No
*Hazardous Bu	lk Solids Authority*				
Not Authorized					
*Loading Const	traints - Structural*				
Tank Number		Max Cargo Weight	per Tank (short tons)	Maximum Dens	ity (lbs/gal)
1		763		13.57	
2		703		13.57	
3		698		13.57	
*Loading Const	traints - Stability*				
Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description	
ш	1551	9ft 6in	11.03	R, LBS	
Ш	1497	9ft 3in	12.08	R, LBS	
111	1443	9ft 0in	12.91	R, LBS	
ш	1390	8ft 9in	13.57	R, LBS	
П.,	1443	9ft 0in	9.99	R, LBS	
П	1390	8ft 9in	11.66	R, LBS	
11	1336	8ft 6in	12.41	R, LBS	
П	1283	8ft 3in	12.83	R, LBS	
II.	1229	8ft 0in	13.33	R, LBS	
I	1176	7ft 9in	13.57	R, LBS	

#### \*Conditions Of Carriage\*

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial # C1-1202419, dated May 11, 2012, 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 9.99 lbs/gal. Cargoes with higher densities, up to 13.57 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.



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

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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.

\*Vapor Control Authorization\*

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 #C1-1202419 dated May 11, 2012 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 162.017/167/4. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 6.5 psig.

#### --- Inspection Status ---

#### \*Cargo Tanks\*

	Internal Exam			External Exam	1	
Tank Id	Previous	Last	Next	Previous	Last	Next
1	06Jun2012	23Jun2022	30Jun2032	29Jun2017	23Jun2022	30Jun2025
2	06Jun2012	23Jun2022	30Jun2032	29Jun2017	23Jun2022	30Jun2025
3	06Jun2012	23Jun2022	30Jun2032	29Jun2017	23Jun2022	30Jun2025
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
1	-		-	06Jun2012	-	
2	-		-	06Jun2012	-	
3	-		-	06Jun2012	-	

#### ---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\*\*\*



Senal #: C1-1202419 Dated 11-May-12

### Certificate of Inspection Cargo Authority Attachment

#### Vessel Name KIRBY 10230

Shipyard Trinity Marine, Ashland City Hull #: 4817

	Offici	ial #:	12396	90		
46	CFR	151	Tank	Group	Characteristics	

Tank Group Information	Cargo	dentificat	bon		Carg		Tanks		Carg Tran		Enviror	nmental I	Fire	Special Require	ments		
Tanks in Group	Density	Press	Temp	Hull Typ	Seg Tank		Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection	General	Matenals of Construction		Temp Cont
A #1,#2 #3	136	Atmos	Elev	U	1# 2#	Integral Gravity	PV	Closed	0	G-1	NR	NA	Portable	50-70(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 equipment located in a hazardous location

#### List of Authorized Cargoes

Cargo Identificatio	n							Condi	tions of Carriage	
		10.					Vapor R	_		-
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 Matts of	Insp Pence
Authorized Subchapter O Cargoes								23		
Acetonitrile	ATN	37	0	С	18	A	Yes	3	hla	G
Acrylonitrile	ACN	15 2	0	С	-	А	Yes	4	50 70(a), 55-1(e)	G
Adiponitrite	ADN	37	0	E	0	A	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 ?	0	NA	10	A	No	N/A	50 81 50-86	G
Aminoethylethanolamine	AEE	8	0	ε	111	A	Yes	1	55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	111	А	No	N/A	50-73 56-1(a), (b) (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	10	A	No	N/A	56-1(4) (b) (c) (f) (g)	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	П	A	No	N/A	No	G
Benzene	BNZ	32	0	C	181	A	Yes	1	50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 2	0	С	10	A	Yes	1	50 60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 =	0	с	III	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	A	Yes	1	50-60	6
Butyl acrylate (all isomers)	BAR	14	0	D	01	A	Yes	2	50-70(a). 50-81(a) (b)	G
Butyl methacrylate	ВМН	14	0	D	III	A	Yes	2	50-70(a) .50-81(a) (b)	G
Butyraldehyde (all isomers)	BAE	19	0	C	10	A	Yes	1	55-1(h)	G
Camphor oil (light)	СРО	18	0	D	П	A	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	191	A	No	N/A	No	G
Caustic potash solution	CPS	5 2	0	NA	10	A	No	N/A	.50-73 .55-1()	G
Caustic soda solution	CSS	52	0	NA	til	A	No	N/A	50-73 55-1())	G
Chemical Oll (refined, containing phenolics)	COD	21	0	E	11	A	No	N/A	50-73	G
Chlorobenzene	CRB	36	0	D	10	A	Yes	1	No	G
Chloroform	CRF	36	0	NA	10	A	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	111	A	Yes	1	50-73	G
Coal tar pitch (molten)	CTP	33	0	E	IH	A	No	N/A	50-73	G
Creosote	CCW	21 2	0	E	111	A	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	E	111	A	Yes	1	No	G
Cresylate spent caustic	CSC	5	0	NA	181	A	No	N/A	50-73 55-1(b)	G
Cresylic acid tar	CRX		0	E	10	A	Yes	1	55-1(1)	G
Crotonaldehyde	CTA	19 2	Ō	c	1	A	Yes	4	55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	C	01	A	No	N/A	No	6
Cyclohexanone	ССН	18	0	D	III	A	Yes	1	.56-1(a) (b)	G



Serial # C1-1202419 Dated 11-May-12

### **Certificate of Inspection** Cargo Authority Attachment

Vessel Name: KIRBY 10230

Official #: 1239690

Page 2 of 8

Shipyard: Trinity Marine, Ashland City Hull #: 4817

Cargo Identification	1				_	-	(	Condit	ions of Carriage	
	1	1	12	-			Vapor R			
Name Cyclohexanone, Cyclohexanol mixture	Chem Code CYX	Compat Group No 18 2	Sub Chapter O	Grade	Hull Type	Tank Group A	App'd	VCS	Special Requirements in 46 CFR 151 General and Matts of 56-1 (b)	Insp. Period
Cyclohexylamine	CHA	7	0	D	())	A	Yes	1	56-1(a) (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	A	Yes		50 60 56-1(b)	G
iso-Decyl acrylate	IAI	14	0	E		A	Yes	1	50-70(a) 50 81(a), (b) 55-1(c)	
Dichlorobenzene (all isomers)	DBX	36	0	E				2	56-1(a). (b)	G
1,1-Dichloroethane	DCH	36	0	C	)   	A	Yes	3	Pio	G
2,2'-Dichloroethyl ether	DEE	41	0	D		A	Yes	1	55-1(1)	G
Dichloromethane	DCM		0	NA		A	Yes	1	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	101 111	A	Yes	5	56-1(a) (b) (c) (g)	G
2 4-Dichlorophenoxyacetic acid, direthylamine salt solution	DAD	43				A	No	N/A	56-1(a) (b) (c) (g)	G
2.4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	0	AE		A	No	N/A	56-1(a) (b) (c) (g)	G
1.1-Dichloropropane	DPB	36	0	C		A	No	N/A	flo	G
1.2-Dichloropropane	DPP	36	0	c	- 111	A	Yes	3	Rio	G
1,3-Dichloropropane	DPC	36	0	c	- 00	A	Yes	3	No	
1.3-Dichloropropene	DPU	15	0	D	18	A	Yes	3	No	G
Dichloropropene, Dichloropropane mixtures	DPU	15	0		11	A	Yes	4	Na	G
Diethanolamine				C		A	Yes	1		G
Diethylamine	DEA	8	0	E		A	Yes	1	55-1(c)	G
Diethylenetriamine	DEN	7	0	C	311	A	Yes	3	55-1(c)	G
A second se	DET	72	0	E	10	A	Yes	1	55-1(c)	G
Diisobutylamine	DBU	7	0	D	- 111	A	Yes	3	55-1(c)	G
Diisopropanolamine	DIP	8	0	E		A	Yes	1	55-1(c)	G
Disopropylamine	DIA	7	0	С	11	A	Yes	3	55-1(c)	G
N.N-Dimethylacetamide	DAC	10	0	E	201	A	Yes	3	5/i-1(b)	G
Dimethylethanolamine	DMB	8	0	D	102	A	Yes	1	56-1(b) (c)	G
Dimethylformamide	DMF	10	0	D		A	Yes	1	55-1(e)	G
Di-n-propylamine	DNA	7	0	С		A	Yes	3	55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E		A	No	N/A	56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	11	A	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	0	D		A	No	N/A	No	G
Ethanolamine	MEA	8	0	E	10	A	Yes	1	55-1(c)	G
Ethyl acrylate	EAC	14	0	С	0	A	Yes	2	50-70(a), 50-81(a) (b)	G
Ethylamine solution (72% or less)	EAN	7	0	A	18	A	Yes	6	55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	10	A	Yes	3	55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	10	A	Yes	1	55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	E		A	Yes	1	No	G
Ethylenediamine	EDA	72	0	D	III	A	Yes	1	56-1(c)	G
Ethylene dichloride	EDC	36 2	0	C	411	A	Yes	1	Na	G
Ethylene glycol hexyl ether	EGH	40	0	E	00	A	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	01	A	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	E	10	A	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	E	10	A	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	)	Α	Yes	1	55-1(h)	G
Furfural	FFA	19	0	D	m	Α	Yes	1	55-1(h)	G
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	<b>III</b>	Α	No	N/A	No	G
Hexamethylenediamine solution	HMC	7	0	E	0)	Α	Yes	1	55-1(c)	G
Hexamethyleneimine	HMI	7	0	С		A	Yes	1	56-1(h) (e)	G



Serial # C1-1202419 Dated: 11-May-12

# Certificate of Inspection Cargo Authority Attachment

Vessel Name KIRBY 10230 Official # 1239690

Page 3 of 8

Shipyard: Trinity Marine, Ashland City Hull #: 4817

		_		_						
Cargo Identification								Condi	tions of Carriage	
		i						ecovery		
Name Hydrocarbon 5-9	Chem Code HFN	Compat Group No	Sub Chapter O		Hull Type	Tank Group		VCS Category	Special Requirements in 46 CFR 151 General and Matts of	Insp Period
Isoprene	IPR	20		C	111	A	Yes	1	50-70(a) .50-81(a), (b)	G
Isoprene, Pentadiene mixture		30	0	A		A	Yes	7	50-70(a), 50-81(a) (b)	G
	IPN		0	8		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	NI.	A	No	N/A	50-73, 56-1(a), (c) (g)	0
Mesityl oxide	MSO	18 2	0	D	111	A	Yes	1	No	a
Methyl acrylate	MAM	14	0	С	III	А	Yes	2	50-70(a), -50-81(a) (b)	G
Methylcyclopentadiene dimer	MCK	30	0	С	10	А	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	E	UI	A	Yes	1	56-1(b) (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	Е	10	A	Yes	1	55-1(e)	6
Methyl methacrylate	MMM	14	0	С	au -	Α	Yes	2	50-70(a), 50-81(a) (b)	G
2-Methylpyridine	MPR	9	0	Ð	01	A	Yes	3	-55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	111	A	Yes	2	50-70(a). 50.81(a) (b)	G
Morpholine	MPL	72	0	D	111	A	Yes	1	55-1(c)	a
Nitroethane	NTE	42	0	Ð	0	A	No	N/A	50-81: 56-1(6)	0
1- or 2-Nitropropane	NPM	42	0	D	III	A	Yes	1	50-81	G
1,3-Pentadiene	PDE	30	0	A	JIE	A	Yes	7	50-70(a) 50-81	G
Perchioroethylene	PER	36	0	NA		A	No	N/A	No	G
Phthalic anhydride (molten)	PAN	11	õ	E	10	A	Yes	1	tła	9
Polyethylene polyamines	PEB	72	0	E	10	A	Yes	1	55-1(e)	G
iso-Propanolamine	MPA	8	ō	E	10	Â			55-1(c)	G
Propanolamine (iso-, n-)	PAX	6	0	E			Yes	1		
Iso-Propylamine	IPP	7	0			A	Yes	1	56-1(b) (c)	G
Pyridine	PRD	9		A		A	Yes	5	55-1(c)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium		9	0	С	JIF	A	Yes	1	55-1(e)	G
Hydroxide)	SAP		0		01	A	No	N/A	50-73 55-1(j)	G
Sodium aluminate solution (45% or less)	SAU	5	0	NA	10	A	No	N/A	50-73 56-1(a), (b) (c)	G
Sodium chlorate solution (50% or less)	SDD	0 1.2	0	NA	III	A	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 12	0	NA	10	А	Yes	1	50-73, 55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 12	0	NA	HI	A	No	N/A	50 73 55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 12	0	NA	11	A	No	N/A	.50-73, 55-1(b)	G
Styrene (crude)	STX		0	D	111	A	Yes	2	No	G
Styrene monomer	STY	30	0	D	111	A	Yes	2	50-70(a), 50-81(a), (b)	G
1.1.2.2-Tetrachloroethane	TEC	36	0	NA	18	A	No	N/A	No	G
Tetraethylenepentamine	TTP	7	0	E	111	A	Yes	1	55-1(c)	G
Tetrahydrofuran	THE	41	0	C	11	A	Yes	1	50-70(p)	G
Toluenediamine	TDA	9	0	E	0	A	No	N/A	50-73 -56-1(a), (b), (d), (g)	G
1,2,4-Trichlorobenzene	тсв	36	0	E	181	A	Yes	1	No	G
1.1.2-Trichloroethane	TCM	36	0	NA	10	A	Yes	1	50-73 56-1(a)	G
Trichloroethylene	TCL	36 2	0	NA	III	A	Yes	1	tao	G
1.2.3-Trichtoropropane	TCN	36	0	E	0	A	Yes	3	50-73, 56-1(a)	G
Triethanolamine	TEA	8 2	0	E	111	A	Yes	1	.55-1(b)	G
Triethylamine	TEN	7	0	C	141				55-1(e)	G
Triethylenetetramine	TET	72	0	E		A	Yes	3	55-1(D)	
Triphenylborane (10% or less), caustic soda solution	TPB	5			116	A	Yes	1		G
Trisodium phosphate solution	TSP	5	0	NA	EII	A	No	N/A	56-1(a) (b) (c)	G
Urea, Ammonium nitrate solution (containing more than 2% NH3)		6	0	NA	111	A	No	N/A	50-73 56-1(a), (c)	G
Containing there than 2 m NH3)	UAS	0	0	NA	111	A	No	N/A	56-1(b)	G



Serial # C1-1202419 Dated 11-May-12

Trinity Marine, Ashland City

Shipyard

Hull #

### **Certificate of Inspection Cargo Authority Attachment**

Vessel Name: KIRBY 10230

Official #: 1239690

Page 4 of 8 4817 **Cargo Identification** Conditions of Carriage Vapor Recover Chem Compa Sub Huli VCS Special Requirements in 46 CER Tank App'd Insp Name Grade 151 General and Mal'is of 50-73 56-1(a) (c) (g) Code Group No. Chapter Type Group or N) Cale N/A Pence Vanillin black liquor (free alkali content, 3% or more) VBL 5 0 NA III A No Vinyl acetate VAM 13 0 C (1) Yes 50-70(a) 50 81(a) (b) G 2 A Vinyl neodecanate VND 13 o E 111 50-70(a), 50-81(a) (b) N/A 6 A No Vinyitoluene VNT 13 0 D 18 A Yes 2 50-70(a) 50-81 56-1(a) (b) (c) ( G Subchapter D Cargoes Authorized for Vapor Control Acetone ACT 18 2 D Ċ A Yes 1 Acetophenone ACP 18 D Е A Yes 1 Alcohol(C12-C16) poly(1-6)ethoxylates APU 20 D Ë A Yes 1 Alcohoi(C6-C17)(secondary) poly(7-12)ethoxylates AEB 20 D Ε A Yes 1 Amyl acetate (all isomers) AEC 34 D D A Yes 1 Amyl alcohol (iso-, n-, sec-, primary) AAI 20 D D A Yes 1 Benzyl alcohol BAL 21 D E A Yes 1 Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) BFX 20 D Ε A Yes 1 glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters) Butyl acetate (all isomers) BAX 34 D Ð A Yes 1 Butyl alcohol (iso-) 20 2 IAL D D A Yes 1 Butyl alcohol (n-) BAN 20 -D D A Yes 1 Butyl alcohol (sec-) BAS 20 2 Ð С A Yes 1 Butyl alcohol (tert-) BAT D С A Yes 1 Butyl benzyl phthalate **BPH** 34 D Ε A Yes 1 **Butyl toluene** BUE 32 D D A Yes 1 Caprolactam solutions CLS 22 D Ε A Yes 1 Cyclohexane CHX 31 D С A Yes 1 Cyclohexanoi CHN 20 D Е A Yes 1 1.3-Cyclopentadiene dimer (molten) CPD 30 D D/E A 2 Yes **D**-Cymene CMP 32 D Ð A Yes 1 iso-Decaldehyde IDA 19 D Е A Yes 1 n-Decaldehyde DAL 19 D Ε A Yes 1 Decene DCE 30 D D A Yes 1 Decyl alcohol (all isomers) DAX 20 D E A Yes 1 n-Decylbenzene, see Alkyl(C9+)benzenes DBZ 32 D E A Yes 1 Diacetone alcohol DAA 20 D D A Yes 1 ortho-Dibutyl phthalate DPA 34 D Е A Yes 1 Diethylbenzene DEB 32 D D A Yes 1 Diethylene glycol DEG 40 D Е A Yes 1 Diisobutylene DBL 30 D С A Yes 1 **Diisobutyl ketone** DIK 18 D D A Yes 1 Diisopropylbenzene (all isomers) DIX D Ë 32 A Yes 1 **Dimethyl phthalate** DTL D Е 34 A Yes 1 **Dioctyl phthalate** DOP 34 D Ε A Yes 1 Dipentene DPN D D 30 A Yes 1 Diphenyl DIL 32 D D/E A Yes 1 Diphenyl, Diphenyl ether mixtures DDO 33 D Ε A Yes 1 **Diphenyl ether** DPE D 41 {E} A Yes 1 Dipropylene glycol DPG 40 D E A Yes 1 Distillates: Flashed feed stocks DFF 33 D Ë. A Yes 1 Distillates: Straight run DSR 33 D Е A Yes 1



Serial #: C1-1202419 Dated: 11-May-12

### Certificate of Inspection Cargo Authority Attachment

Vessel Name KIRBY 10230 Official # 1239690

Page 5 of 8

Shipyard: Trinity Marine. Ashland City Hull #: 4817

Cargo Identificati	ion					-	-	Condi	tions of Comies-	
			_	-	_			Recovery	tions of Carriage	
Name Dodecene (all isomers)	Chem Code DOZ	Compat Group No 30	Sub Chapte D	r Grade D	Hull Type	Tank Grown A	App'd (Y or N) Yes	VCS	Special Requirements in 46 CFR 151 General and Mattls of	Insp Penod
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		A	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1	and the state of t	
Ethyl acetate	ETA	34	D	С		A	Yes	1		
Ethyl acetoacetate	EAA	34	D	£		A	Yes	1		
Ethyl alcohol	EAL	20 2	D	С		A	Yes	1		
Ethylbenzene	ETB	32	D	С		A	Yes	1		
Ethyl butanol	EBT	20	D	D		A	Yes	1		
Ethyl tert-butyl ether	EBE	41	D	С		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		
2-Ethylhexanol	EHX	20	D	E		A	Yes	1		
Ethyl propionate	EPR	34	D	С		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 gallon)	GAT	33	D	С		A	Yes	1		
Gasolines: Aviation (containing not over 4 86 grams of lead per gallon)	GAV	33	D	С		A	Yes	1		
Gasolines Casinghead (natural)	GCS	33	Ð	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	ang ng n	
Glycerine	GCR	20 7	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)	НТХ	20	D	D/E		A	Yes	1		
Heptene (all isomers)	HPX	30	D	С		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	нхо	4	D	E		A	Yes	1		
Hexanol	HXN	20	D	D		A	Yes	1		
Hexene (all isomers)	HEX	30	D	С		A	Yes	2		
Hexylene glycol	HXG	20	D	E		A	Yes	1		
sophorone	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	MIT	34	D	D		A	Yes	1	and a second	
Methy! alcohol	MAL	20 2		С		A	Yes	1		
Methylamyl acetate	MAC	34		D		A	Yes	1		



Page 6 of 8

Serial #: C1-1202419 Dated 11-May-12

Trinity Marine, Ashland City

4817

Shipyard

Hull #:

### Certificate of Inspection Cargo Authority Attachment

Vessel Name. KIRBY 10230

Official # 1239690

**Cargo Identification Conditions of Carriage** Vapor Recovery Chen Compa Sub Hul VCS Tan) Special Regurements in 46 CFR App'd Insp Name Grade Code Group No Chapter Тура Gmun OT NI) Category 151 General and Mattis of Methylamyl alcohol MAA 20 D D A Yes Methyl amyl ketone MAK 18 D D A Yes 1 Methyl tert-butyl ether MBE 41 2 D C Α Yes 1 Methyl butyl ketone MBK 18 D С A Yes 1 Methyl butyrate MBU 34 D C A Yes 1 Methyl ethyl ketone MEK 18 2 D C A Yes 1 Methyl heptyl ketone MHK 18 D D A Yes 1 Methyl isobutyl ketone MIK 18 7 D С Α Yes 1 Methyl naphthalene (molten) MNA 32 Ð Ε A Yes 1 Mineral spirits MNS 33 D D A Yes 1 Myrcene MRE 30 D Ð A Yes 1 Naphtha: Heavy NAG 33 D 쇎 A Yes 1 Naphtha: Petroleum PTN 33 D 쇎 Α Yes 1 Naphtha: Solvent NSV 33 D D A Yes 1 Naphtha Stoddard solvent NSS 33 D D A Yes 1 Naphtha: Vamish makers and painters (75%) NVM 33 D С A 1 Yes Nonane (all isomers), see Alkanes (C6-C9) NAX 31 D D A Yes 1 Nonene (all isomers) NON 30 D D 2 A Yes Nonyl alcohol (all isomers) NNS 20 D Ε А Yes 1 Nonyl phenol NNP 21 D E A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 Þ Е A Yes 1 Octane (all isomers), see Alkanes (C6-C9) DAX 31 D С A Yes 1 Octanoic acid (all isomers) OAY 4 D Ē A Yes 1 Octanol (all isomers) OCX 20 D Ε A Yes 1 Octene (all isomers) OTX 30 С D A Yes 2 OI, 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/F A Yes 1 Oil fuel No 5 OFV 33 D Đ/E A Yes 1 Oil fuel No 6 OSX 33 D E Yes A 1 Oil, misc: Crude OIL 33 D CID A Yes 1 Oil, misc. Diesel ODS 33 D D/E A Yes 1 Oil, misc. Gas, high pour OGP 33 Ð Ε A Yes 1 Oil, misc: Lubricating OLB 33 D Е A Yes 1 Oil, misc Residual ORL 33 D Ε A Yes 1 Oil, misc Turbine OTB 33 D Ε A Yes 1 Pentene (all isomers) PTX 30 D A A Yes 5 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 D Ë 40 A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate D PAF 34 Ε A Yes 1 Polybutene D PLB 30 Ε A Yes 1 Polypropylene glycol PGC 40 D Ε A Yes 1 iso-Propyl acetate IAC 34 D С A Yes 1 n-Propyl acetate PAT 34 D С A Yes 1 iso-Propyl alcohol IPA 20 2 D C A Yes 1 n-Propyl alcohol PAL 20 2 D С A Yes 1



Serial #: C1-1202419 Dated: 11-May-12

# Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10230 Official #: 1239690

Page 7 of 8

Shipyard Trinity Marine, Ashland City Hull #: 4817

Cargo Identific	ation							Condi	tions of Carriage	Requirements in 46 CFR Into			
							Vapor Recovery						
Propylbenzene (all isomers)	Chem Code PBY	Compat Group No 32	Chapter D	Grade D	Hull Type	Tank Gmuo A	App'd (Y or N) Yes	VCS Category	Special Requirements in 46 CFR 151 General and Mat's of				
iso-Propylcyclohexane	IPX	31	D	D		A	Yes	1					
Propylene glycol	PPG	20 2	D	Ε		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	Ð	E		А	Yes	1					
Tetraethylene glycol	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		A	Yes	1					
Triethylene glycol	TEG	40	D	E		A	Yes	1					
Triethyl phosphate	TPS	34	D	E		A	Yes	1					
Trimethylbenzene (all isomers)	TRE	32	Ð	(D)		A	Yes	1					
Trixylenyl phosphate	TRP	34	D	E		A	Yes	1	and the second				
Undecene	UDC	30	D	D/E		A	Yes	1					
1-Undecyl alcohol	UND	20	D	E		A	Yes	1					
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		A	Yes	1					



Serial #: C1-1202419 Dated: 11-May-12

### Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10230 Official # 1239690

Page 8 of 8

Shipyard: Trinity Marine, Hull #: 4817

#### Explanation of terms & symbols used in the Table:

Cargo Identification	
Name	The proper shipping name as listed in 46 CFR Table 30 25-1, 46 CFR Table 151 05, and 46 CFR Part 153 Table 2
Chem Code none	The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual Certain mixtures of cargoes may not have a CHRIS Code assigned
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 carrage 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	(202) 372-1425. See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart.
Subchapter	The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified
Subchapter D Subchapter O	Those flammable and combustible liquids listed in 48 CFR Table 30 25-1 Those hazardous cargoes listed in 46 CFR Table 151 05 and 46 CFR Part 153 Table 2
Note 3	Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges
0	
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.
ABC	Flammable liquid cargoes, as defined in 46 CFR 30-10.22
Note 4	Combustible liquid cargoes, as defined in 48 CFR 30-10 15 The formpolity combustible conduction of these services dependences by foreign and the foreign and the services and th
	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 camage of thet grade of cargo
NA	Those subchapter O cargoes which are not classified as a flammable or compustible 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
1	Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the carro See 46 CFR 151 10-1(b)(1)
11	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 indicate of authority build be the uncontrolled release of cargo.
MA	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	The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo
Approved (Y or N)	Yes The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo No The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo
Conditions of Carriage	
Tank Group	The vessel's tank group (as defined under the "46 CFR Tank Group Charactenstics" listed on page 1) which is authorized for camage of the named cargo
Vapor Recovery	Yes The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified caroo
Approved (Y or N)	No The vesser's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo
MCS Calagoni	
VCS Category Category 1	The specified cargo's provisional classification for vapor control systems
Category I	(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous matenals in Titles 33 and 48 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, 48 CFR 35 35 and 48 CFR 39. The cargoes the specifically dealing with vapor control systems are in 33 CFR 155 750, 33 CFR 156 120, 33 CFR 156 170, 48 CFR 35 35 and 48 CFR 39. The cargoes the specifically dealing with vapor control systems are in 33 CFR 156 750, 33 CFR 156 120, 33 CFR 156 170, 48 CFR 35 35 and 48 CFR 39. The cargoes the specifically dealing with vapor control systems are in 33 CFR 156 750, 33 CFR 156 120, 33 CFR 156 170, 48 CFR 35 and 48 CFR 39. The cargoes the specifically dealing with vapor control systems are in 30 CFR 156 750, 33 CFR 156 120, 33 CFR 156 170, 48 CFR 35 and 48 CFR 39. The cargoes the specifically dealing with vapor control systems are in 30 CFR 156 750, 33 CFR 156 120, 33 CFR 156 170, 48 CFR 35 and 48 CFR 39. The cargoes the specifically dealing with vapor control systems are in 30 CFR 156 750, 33 CFR 156 120, 33 CFR 156 170, 48 CFR 35 and 48 CFR 39. The cargoes the specifically dealing with vapor control systems are in 30 CFR 156 750, 33 CFR 156 120, 33 CFR 156 170, 48 CFR 35 and 48 CFR 39. The cargoes the specifically dealing with vapor control systems are in 30 CFR 156 750, 33 CFR 156 750, 35 CFR 156 750,
Category 2	(Polymenzes) Polymenzation 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 overpressunzation. The vessel's owner must develop a method of ensuing 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, Manne 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 arroster.
Category 3	(Highly toxic) VCSs for these toxic cargines cannot use a spill valve or rupture disk as the primary means to meet the overfull protection requirement of 46 CFR 39 20-9 This requirement is in addition to the requirements of Category 1.
Category 4	(Polymenzes and highly toxic) Must comply with requirements of Categones 1, 2 and 3
Calegory 5	(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must lake into account increased vapor-bin mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.
Category 6	(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5
Category 7	(High vapor pressure and polymenzes) Must comply with requirements of Categories 1 2 and 5
none	The cargo has not been evaluated/classified for use in vapor control systems