

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

Certification Date: 23 Jul 2024 Expiration Date: 23 Jul 2029

## 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	m
KIRBY 27720			1162077					2722
111101 ZIIZU			1102011				Tank Ba	arye
Hailing Port			Hull Material		Horsepower	Propulsion		
WILMINGTO	N, DE		Steel			· · uperateir		
UNITED STA	TEQ		3(66)					
OMITED STA	IIES							
Dines Built								
Place Built ASHLAND C	ITY TNI		Delivery Date	Keel Laid Date		Net Tons	DWT	Length
AGI ILANU C	111, 118		30Dec2004	15Oct200		R-1632		R-300.0
UNITED STA	TES				l-	F		1-0
Owner			·	0	perator			···
	D MARINE LP	^			IRBY INLAND			
HOUSTON, T	ORIVE STE 100: 'X 77007	U			8350 MARKE: HANNELVIEV			
UNITED STA					INITED STATE	-		
This vessel m 0 Certified Life	ust be manned v eboatmen, 0 Ce	with the fo	llowing license kermen, 0 HS	d and unlice C Type Rati	nsed Personne ng, and 0 GMD	el. Included in v DSS Operators.	vhich there mu	ust be
0 Masters	0	Licensed M	ates 0 Chie	of Engineers	0 <b>(</b>	Ollers		
0 Chief Mates	. 0	First Class	Pilots 0 Firs	t Assistant Eng	jineers			
0 Second Ma		Radio Office		ond Assistant	Engineers			
0 Third Mates	_	Able Seame		d Assistant En	_			
0 Master Firs		Ordinary Se		nsed Engineer				
0 Mate First 0		Deckhands		lified Member		one in addition	to orone and	o Others Tetal
Persons allow				er Persons I	n crew, u Pers	uns in addition	o crew, and n	o Otners, Total
l	itted And Cond		•					
Lakes,	Bays, and \$	ounds	plus Limite	d Coastv	vise			
LIMITED COAS	TWISE SERVICE:	IN SEAS TWELVE (	OF LESS THAN 12) MILES FRO	THREE (03)	FEET, WIND	LESS THAN TWE	NTY (20) KNO	TS AND CLEAR A.
THIS VESSEL	HAS BEEN GRANI	ED A FRE	SH WATER SERV	ICE EXAMIN	ATION INTERVA	L IN ACCORDAN	CE WITH 46 C	FR TABLE 31.10-
21(b); IF TH	IS VESSEL IS O	PERATED	IN SALT WATER	MORE THAN	SIX (6) MONT	HS IN ANY TWE	LVE (12) MON'	TH PERIOD, THE
	WRITING AS SOC					1.10-21(a) AN	D THE COGNIZA	ANT OCMI
THIS TANK BA	RGE IS PARTICI	PATING T	N THE EIGHTH-	NINTH COAS	r GUARD DISTR	RICT'S TANK BA	RGE STREAMLI	NED INSPECTION
	T PAGE FOR							
Inspection, Ho	ection for Certificuma, Louisiana regulations pres	certified t	he vessel, in a	leted at Hou I respects, is	ima, LA, UNIT in conformity	ED STATES, to with the applica	he Officer in Cable vesselins	Charge, Marine pection laws and
une rules and	regulations pres Annual/Perio			I	This cortified	ate issued by:	Wallana	
Date	Zone	A/P/R	Signat	ure			A NOVA	N Direction
Dute	20110	LATE ITS	Signal	WI G		. WHÁLEN, LÓ	iur usuu, b	y Direction
1		•			Officer in Charge, i	35.75	a, Louisiana	· 13.
					Inspection Zone	riodini	a, Considire	
l l		i 1						The Secret



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

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### Certificate of Inspection

Vessel Name: KIRBY 27720

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 THE OCMI HOUSTON-GALVESTON.

### ---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31May2029

31May2019

12Jun2014

Internal Structure

31Jul2029

23Jul2024

31May2019

### --- 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

28484

Barrels

Α

Yes

No

No

### \*Hazardous Bulk Solids Authority\*

Not Authorized

### \*Loading Constraints - Structural\*

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gat)
18	812	8.9
1P	812	8.9
2S	810	8.9
2P	810	8.9
3S	750	8.9
3P	750	8.9

### \*Loading Constraints - Stability\*

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
Ш	3526	9ft 6in	8.9	L,B,S,LC
: 81	3526	9ft 6in	8.9	R
III	4521	11ft 6in	8.9	Ł,B,S,LC
uı	4521	11ft 6in	8.9	R

#### \*Conditions Of Carriage\*

THERMAL FLUID HEATER MAY ONLY BE OPERATED WHEN CARRYING GRADE "E" CARGOES.

ONLY THOSE HAZARDOUS CARGOES NAMED IN THE VESSEL'S CARGO AUTHORITY ATTACHMENT, SERIAL NO. C1-1900216 DATED 23 MAY 2019, MAY BE CARRIED AND THEN ONLY IN THE TANKS INDICATED, SUBJECT TO THE LOADING CONSTRAINTS OF THE VESSEL'S CURRENT STABILITY LETTER.

PER 46 CFR 150.130, THE PERSON IN CHARGE OF THE BARGE 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 REACTIVE GROUP NUMBER FROM THE "COMPATIBILITY GROUP NO." COLUMN LISTED IN THE VESSEL'S CAA.

A MAXIMUM DRAFT OF 11 FEET, 06 INCHES IS PERMITTED.



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Vessel Name: KIRBY 27720

PER 46 CFR 151.10-15(c)(2) THE MAX TANK WEIGHTS LISTED BELOW REFLECT UNIFORM (WITHIN 5%) LOADING AT THE DEEPEST DRAFT ALLOWED. WHEN CARRYING SUBCHAPER "O" CARGOES AT SHALLOWER DRAFTS, THE BARGE(S) SHOULD ALWAYS BE LOADED UNIFORMLY.

WHEN THE VESSEL IS CARRYING CARGOES CONTAINING GREATER THAN 0.5% BENZENE, THE PERSON IN CHARGE IS RESPONSIBLE FOR ENSURING THE PROVISIONS OF 46 U.S. CODE OF FEDERAL REGUALTIONS PART 197, SUBPART C ARE APPLIED.

THE MAXIMUM DESIGN DENSITY OF CARGO WHICH MAY BE FILLED TO THE TANK TOP IS 8.745 LBS/GAL. CARGOES WITH HIGHER DENSITIES, UP TO 8.91 LBS/GAL, MAY BE CARRIED AS SLACK LOADS, BUT SHALL NOT EXCEED THE TANK WEIGHT LIMITS AS LISTED ABOVE.

IN ACCORDANCE WITH 46 CFR PART 39, EXCLUDING PART 39.4000, THIS VESSEL'S VAPOR CONTROL SYSTEM HAS BEEN INSPECTED TO THE PLANS APPROVED BY MARINE SAFETY CENTER LETTERS SERIAL NO. C1-1900216 DATED 23 MAY 2019, AND FOUND ACCEPTABLE FOR COLLECTION OF BULK LIQUID CARGO VAPORS ANNOTATED WITH "YES" IN THE CAA'S VCS COLUMN.

### --- Inspection Status ---

### \*Cargo Tanks\*

- 1							
1		Internal Exam			External Exam	ı	
	Tank Id	Previous	Last	Next	Previous	Last	Next
	1\$	12Jun2014	31May2019	31May2029	-	•	-
	1P	12Jun2014	31May2019	31May2029	-	-	-
	28	12Jun2014	31May2019	31May2029	-	-	-
	2P	12Jun2014	31May2019	31May2029	•	•	-
	3S	12Jun2014	31May2019	31May2029	-	-	-
	3P	12Jun2014	31May2019	31May2029	4	-	-
				Hydro Test			
	Tank Id	Safety Valves		Previous	Last	Next	
	18	-		-	-	-	
	1P	-		-	-	-	
	2\$	•		-	8	-	
	2P	-		-	-	-	
	3S	-		-		-	
	3P	-		-	-	-	

### --- 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 3 40-B:C

\*\*\*END\*\*\*



Serial #: Dated: C1-1900216 23-May-19

# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 27720

Official #: 1162077

Shipyard: Trinity Ashland City

Hull #: 4476

Tank Group Information	Cargo I	dentificat	ion			Environmental Control		Fire	Special Requirements								
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg	_	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec	Temp
A #1 - #3 P/S	8.91	Atmos.	Amb.	11	1ii 2ii	Integral Gravity	PV	Restr.	П	G-1	NR	NA	Portable	.50-81(a), .50- 81(b), .50-86,	55-1(h), (j), 56-1(a), (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.

**List of Authorized Cargoes** 

Cargo Identificat		Conditions of Carriage								
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	ecovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes										
Sodium acetate solution	SAN	34	D/O 3	#		Α	No	N/A		
Acetonitrile	ATN	37	0	С	111	Α	Yes	3	No	G
Adiponitrile	ADN	37	0	Ε	II	Α	Yes	1	No	G
Alkyl (C7-C9) nitrates	AKN	34 2	0	NA	111	Α	No	N/A	.50-81, .50-86	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	Ш	Α	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18	0	D	н	Α	No	N/A	No	G
Coal tar naphtha solvent	NCT	33	0	D	III	Α	Yes	1	.50-73	G
Creosote	CCW	21 2	0	Е	III	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	Ε	Ш	Α	Yes	1	No	G
Crotonaldehyde	CTA	19 <sup>2</sup>	0	С	II	Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	19 <sup>2</sup>	0	С	Ш	Α	Yes	1	No	G
EE Glycol Ether Mixture	EEG	40	0	D	Ш	Α	No	N/A	No	G
Ethyl acrylate	EAC	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylene cyanohydrin	ETC	20	0	E	Ш	Α	Yes	1	No	G
Ethylene glycol hexyl ether	EGH	40	0	E	Ш	Α	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	Α	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	E	Ш	Α	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	Е	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	111	Α	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 <sup>2</sup>	0	E	111	Α	Yes	1	No	G
Isoprene	IPR	30	0	Α	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Mesityl oxide	MSO	18 <sup>2</sup>	0	D	111	Α	Yes	1	No	G
Methyl acrylate	MAM	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Methylcyclopentadiene dimer	MCK	30	0	С	Ш	Α	Yes	1	No	G
Methyl methacrylate	MMN	1 14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
alpha-Methylstyrene	MSR	30	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (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
Styrene monomer	STY	30	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Tetrahydrofuran	THF	41	0	С	Ш	Α	Yes	1	.50-70(b)	G
Trisodium phosphate solution	TSP	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (c).	G
Vinyl acetate	VAM	13	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G

<sup>\*\*\*</sup> This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. \*\*\*

<sup>2.</sup> 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.

<sup>3.</sup> 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.



# Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: KIRBY 27720

Official #: 1162077

Page 2 of 7

Shipyard: Trinity Ashland City

23-May-19

Cargo Identificatio	n		1			Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period		
Vinyl neodecanoate	VND	13	0	Е	Ш	Α	No	N/A	.50-70(a), .50-81(a), (b)	G		
Subchapter D Cargoes Authorized for Vapor Contr	ol											
Acetone	ACT	18 2	2 D	С		Α	Yes	1	W. W.			
Acetophenone	ACP	18	D	E		Α	Yes	1				
Alcohol (C12-C16) poly(20+) ethoxylates	APW	20	D	E		Α	Yes	1				
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	AEA	20	D	E		Α	Yes	1				
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	AEB	20	D	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 acetate	BZE	34	D	Е		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)	BFY	20	D	E		Α	Yes	1				
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1				
sobutyl alcohol	IAL	20 2	. D	D		Α	Yes	1				
Butyl alcohol (n-)	BAN	20 2	D	D		Α	Yes	1	water to the control of the control			
Butyl alcohol (sec-)	BAS	20 2	D	С		Α	Yes	1		-		
Butyl alcohol (tert-)	BAT	20 2	D	С		A	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				
Cycloheptane	CYE	31	D	С		A	Yes	1				
Cyclohexane	CHX	31	D	С		A	Yes	1				
Cyclohexanol	CHN	20	D	E		A	Yes	1				
Cyclohexyl acetate	CYC	34	D	D		A	Yes	1				
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		A	Yes	2				
Cyclopentane	CYP	31	D	В		A	Yes	1				
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				
Decanoic acid	DCO	4	D	#		A		1		***************************************		
Decene	DCE	30	D	<del></del>		A	Yes	1				
Decyl alcohol (all isomers)	DAX	20 2		E		A	Yes	1				
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes	1				
Diacetone alcohol	DAA	20 <sup>2</sup>	D	D		A	Yes	1				
Dibutyl phthalate	DPA	34	D	E		A	Yes	1				
Diethylbenzene	DEB	32	D	D		A	Yes	1				
Diethylene glycol	DEG	40 <sup>2</sup>	D	E		A						
Diisobutylene	DBL	30	D				Yes	11				
	DDL	30	U	С		Α	Yes	1				

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Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: KIRBY 27720
Official #: 1162077

Page 3 of 7

Shipyard: Trinity Ashland City

23-May-19

Cargo Identification								Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor F App'd	Recovery VCS Category	Special Requirements in 46 CFR	Insp. Period
Diisobutyl ketone	DIK	18	D	D		A	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1		-
Dimethyl phthalate	DTL	34	D	Е		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	Е		Α	Yes	1		
Dipentene	DPN	30	D	D		Α	Yes	1		
Diphenyl	DIL	32	D	D/E		Α	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		Α	Yes	1		
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1		
Dipropylene glycol	DPG	40	D	E	***	Α	Yes	1	The second size that is a second seco	
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1	-	
Distillates: Straight run	DSR		D	E		Α	Yes	1		
Dodecene (all isomers)	DOZ		D	D		A	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	 D		A	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	 Е		A	Yes	1		
Ethyl acetate	ETA	34	D	C		A	Yes	1		
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1		
Ethyl alcohol	EAL	20 2		С		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	<u>'</u>		
Ethyl butyrate	EBR	34	D	D		A	Yes	1	The control of the co	
Ethyl cyclohexane	ECY	31	D	D		A	Yes	1		
Ethylene glycol	EGL	20 2		E		Α	Yes	1	The later states of the state o	
Ethylene glycol butyl ether acetate	EMA	34	D	E		A	Yes	1		
Ethylene glycol diacetate	EGY	34	D	 E						
Ethylene glycol phenyl ether	EPE	40	D	 E	-	A	Yes	11		
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α .	Yes	1		
2-Ethylhexanol						A	Yes	1		
	EHX	20	D	E		Α .	Yes	1		
Ethyl propionate	EPR	34	D	С		A	Yes	1		
Ethyl toluene Formamide	ETE	32	D		-	A	Yes	1		
Furfuryl alcohol	FAM	10	D	E		A	Yes	1		
	FAL	20 2		E		Α .	Yes	1		
Gasoline blending stocks: Alkylates	GAK		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	С		A	Yes	11		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)		33	D	C		A	Yes	1		
Gasolines: Casinghead (natural)	GCS		D	A/C		A	Yes	1		
Gasolines: Polymer	GPL	33	D	A/C	THE PERMITS OF THE PERMITS	A	Yes	1		
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1		



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Page 4 of 7

Shipyard: Trinity Ashland City

23-May-19

Cargo Identificat	ion							Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor I App'd	Recovery VCS	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Glycerine	GCR	20 2	2 D	Е		Α	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	НМХ	31	D	С		Α	Yes	1		
n-Heptanoic acid	HEN	4	D	E		Α	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1		
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2		
Heptyl acetate	HPE	34	D	E		Α	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 2	. D	B/C		Α	Yes	1		
Hexanoic acid	НХО	4	D	E		Α	Yes	1		
Hexanol	HXN	20	D	D		Α	Yes	1		CONTRACT MANAGEMENT CONTRACTOR
Hexene (all isomers)	HEX	30	D	С		Α	Yes	2		
Hexylene glycol	HXG	20	D	Ε		Α	Yes	1		
Isophorone	IPH	18 <sup>2</sup>	D	Е		Α	Yes	1		
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes	1	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Kerosene	KRS	33	D	D		Α	Yes	1		
Methyl acetate	MTT	34	D	D	-	Α	Yes	1		
Methyl alcohol	MAL	20 2		С		Α	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		Α	Yes	1		
Methyl tert-butyl ether	MBE	41 2	D	С		A	Yes	1		
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1		
Methyl butyrate	MBU	34	D	С		Α	Yes	1		
Methylcyclohexane	MCY	31	D	С		Α	Yes	1	Name of the Association of the A	
Methyl ethyl ketone	MEK	18 2		С	-	Α	Yes	1	77.70 - F. 40-10-10-10-10-10-10-10-10-10-10-10-10-10	
Methyl heptyl ketone	MHK	18	D	D		A	Yes	1		
Methyl isobutyl ketone	MIK	18 2		С		A	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	#	THE RESERVE OF THE PERSON OF T	Α	Yes	<u>-</u>		THE RESERVE THE PARTY NAMED IN
Naphtha: Solvent	NSV	33	D	D		Α	Yes	<u>.</u> 1		
Naphtha: Stoddard solvent	NSS	33	D		ā.	Α	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		A	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes	1		
Nonene (all isomers)	NON	30	D	D		A	Yes	2		
Nonyl alcohol (all isomers)	NNS	20 2		E		A	Yes	1		
Nonyl phenol	NNP	21	D	E	Ber - de desemble	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	С		A	Yes	1		-

<sup>\*\*\*</sup> This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. \*\*\*



Serial #: C1-190

Dated: 23-Ma

23-May-19

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: KIRBY 27720
Official #: 1162077

Page 5 of 7

Shipyard: Trinity Ashland City

Name	Cargo Identificat	ion							O 1:	114117. 4470	
Name	- Cargo identificat	1011	_								
Octamo (all isomers)	Name		Group		Grade			App'd	VCS	151 General and Matte of	
Octone (all isomers)	Octanoic acid (all isomers)	OAY	4	D	Е		Α	Yes	1		
Oil, fuel, No. 2	Octanol (all isomers)	ocx	20 2	2 D	Е		Α	Yes	1		
No. 1	Octene (all isomers)	OTX	30	D	С		Α	Yes	2		
Oil, fuel: No. 4	Oil, fuel: No. 2	OTW	33	D	D/E	6	Α. Α	Yes	1		
Oil, fuelt. No. 6	Oil, fuel: No. 2-D	OTD	33	D	D		Α	Yes	1		
Oil, misc: Crude	Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1		
Oli. missc: Diesel	Oil, fuel: No. 6	osx	33	D	Е		Α	Yes	1		
Oli, misc: Gas, high pour   OGP   33	Oil, misc: Crude	OIL	33	D	A/D		- A	Yes	1		
Oli. misc: Lubricating   OLB   33   D   E   A   Yes   1	Oil, misc: Diesel	ODS	33	D	D/E	Total designation	Α	Yes	1	The second secon	
Oli, misc: Lubricaling   OLB   33   D   E   A   Yes   1	Oil, misc: Gas, high pour	OGP	33	D	E	-	Α	Yes	1		
Oil, misc: Residual	Oil, misc: Lubricating	OLB	33	D	E						
Oil, misc: Turbine         OTB         33         D         E         A         Yes         1           alpha-Olefins (CB-C18) mixtures         OAM         30         D         E         A         Yes         1           Olefins (C13+, all isomers)         OFZ         30         D         E         A         Yes         5           Pentane (all isomers)         PTX         30         D         A         A         Yes         5           Pentane (all isomers)         PTX         30         D         A         A         Yes         5           Pentane (all isomers)         PTX         30         D         A         A         Yes         5           Pentane (all isomers)         PTX         30         D         D         A         Yes         1           Pentane (all isomers)         PTX         34         D         D         A         Yes         1           Pentane (all isomers)         PSX         34         D         D         A         Yes         1           Alpha-Prince         PIP         30         D         D         A         Yes         1           Poly(2-2-)alkylene glycol monoalkyl (C1-C6) ether acetate </td <td>Oil, misc: Residual</td> <td>ORL</td> <td>33</td> <td>D</td> <td>E</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Oil, misc: Residual	ORL	33	D	E						
Alpha-Olefins (C6-C18) mixtures	Oil, misc: Turbine	ОТВ	33	D	Е					100 (No. 1) (100 MINE MANUAL AND	
OFZ   30   D   E	alpha-Olefins (C6-C18) mixtures	OAM	30	D						PACE AND ASSESSMENT OF PACE ASSE	
Pertane (all isomers)         PTY         31         D         A         A         Yes         5           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           Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether         PAG         40         D         E         A         Yes         1           Polyto-Polytene glycol monoalkyl (C1-C6) ether acetate         PAF         34         D         E         A         Yes         1           Polyto-Polytene glycol monoalkyl (C1-C6) ether acetate         PAF         34         D         E         A         Yes         1           Polyto-Polytene glycol monoalkyl (C1-C6) ether acetate         PAF         34         D         E         A         Yes         1           Polyto-Polytene glycol         PGC         40         D         E         A         Yes         1           Isopropyl acetate         PAT         34         D         C         A         Yes	Olefins (C13+, all isomers)	OFZ	30	D							
Pertene (all isomers)	Pentane (all isomers)	PTY	31	D							
PPE   34	Pentene (all isomers)	PTX	30	D							
PID   RIP   RIP	n-Pentyl propionate	PPE	34	D							
beta-Pinene         PIP         30         D         D         A         Yes         1           Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether         PAG         40         D         E         A         Yes         1           Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate         PAF         34         D         E         A         Yes         1           Polybutene         PLB         30         D         E         A         Yes         1           Polybutene glycol         PGC         40         D         E         A         Yes         1           Isopropyl acetate         IAC         34         D         C         A         Yes         1           Isopropyl alcohol         IPA         34         D         C         A         Yes         1           Propyla lochol         PAL         20 2 3         D         C         A         Yes         1           Propylen cell isomers)         PBY         32         D         D         A         Yes         1           Propylene glycol methyl ether acetate         PGN         31         D         D         A         Yes         1           Propylene glycol met	alpha-Pinene	PIO	30	D							
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	beta-Pinene	PIP	30	D	D					Ÿ.	
Poly(2-8) alkylene glycol monoalkyl (C1-C6) ether acetate         PAF         34         D         E         A         Yes         1           Polybutene         PLB         30         D         E         A         Yes         1           Polypropylene glycol         PGC         40         D         E         A         Yes         1           Isopropyl acetate         IAC         34         D         C         A         Yes         1           Isopropyl alcohol         IPA         20 23         D         C         A         Yes         1           Propyl alcohol         PAL         20 2 2         D         C         A         Yes         1           Propyl alcohol         PAL         20 2 2         D         C         A         Yes         1           Propyl alcohol         PAL         20 2 2         D         C         A         Yes         1           Propylene (all isomers)         PBY         32         D         D         A         Yes         1           Propylene glycol methyl ether acetate         PGN         34         D         D         A         Yes         1           Propylene glycol methyl ether aceta	Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	PAG	40								
Polybutene         PLB         30         D         E         A         Yes         1           Polypropylene glycol         PGC         40         D         E         A         Yes         1           Isopropyl acetate         IAC         34         D         C         A         Yes         1           Isopropyl acetate         PAT         34         D         C         A         Yes         1           Isopropyl alcohol         IPA         20 2 3         D         C         A         Yes         1           Propyl alcohol         PAL         20 2 0         D         C         A         Yes         1           Propyl alcohol         PAL         20 2 0         D         C         A         Yes         1           Propyl alcohol         PAL         20 2 0         D         D         A         Yes         1           Propyll alcohol         PBY         32 0         D         D         A         Yes         1           Isopropylacylohothane         IPX         31 0         D         D         A         Yes         1           Propylene glycol         PEG         20 2 0         D	Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	PAF	34	D	Е						
Polypropylene glycol	Polybutene	PLB	30	D	Е		Α				
IAC   34   D   C   A   Yes   1	Polypropylene glycol	PGC	40	D	Е		Α	Yes		The state of a state of the sta	
IPA   20 23   D   C   A   Yes   1	Isopropyl acetate	IAC	34	D	С						THE RESIDENCE AND ADDRESS.
IPA   20 2 3   D   C   A   Yes   1	n-Propyl acetate	PAT	34	D	С		Α	Yes	1		
n-Propyl alcohol         PAL         20 2	Isopropyl alcohol	IPA	20 2	3 D	С						
Propylbenzene (all isomers)         PBY         32         D         D         A         Yes         1           Isopropylcyclohexane         IPX         31         D         D         A         Yes         1           Propylene glycol         PPG         20 2         D         E         A         Yes         1           Propylene glycol methyl ether acetate         PGN         34         D         D         A         Yes         1           Propylene tetramer         PTT         30         D         D         A         Yes         1           Sulfolane         SFL         39         D         E         A         Yes         1           Tetraethylene glycol         TTG         40         D         E         A         Yes         1           Tetrahydronaphthalene         THN         32         D         E         A         Yes         1           Toluene         TOL         32         D         C         A         Yes         1           Tricresyl phosphate (containing less than 1% ortho isomer)         TCP         34         D         E         A         Yes         1           Triethylbenzene         TEB </td <td>n-Propyl alcohol</td> <td>PAL</td> <td>20 2</td> <td>D</td> <td>С</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	n-Propyl alcohol	PAL	20 2	D	С						
IPX   31   D   D   A   Yes   1	Propylbenzene (all isomers)	PBY	32	D	D		Α				
Propylene glycol         PPG         20 ²         D         E         A         Yes         1           Propylene glycol methyl ether acetate         PGN         34         D         D         A         Yes         1           Propylene tetramer         PTT         30         D         D         A         Yes         1           Sulfolane         SFL         39         D         E         A         Yes         1           Tetraethylene glycol         TTG         40         D         E         A         Yes         1           Tetrahydronaphthalene         THN         32         D         E         A         Yes         1           Toluene         TOL         32         D         C         A         Yes         1           Tricresyl phosphate (containing less than 1% ortho isomer)         TCP         34         D         E         A         Yes         1           Triethylbenzene         TEB         32         D         E         A         Yes         1	Isopropylcyclohexane	IPX	31	D	D					The same of the sa	
Propylene glycol methyl ether acetate PGN 34 D D A Yes 1  Propylene tetramer PTT 30 D D A Yes 1  Sulfolane SFL 39 D E A Yes 1  Tetraethylene glycol TTG 40 D E A Yes 1  Tetrahydronaphthalene THN 32 D E A Yes 1  Toluene TOL 32 D C A Yes 1  Tricresyl phosphate (containing less than 1% ortho isomer) TCP 34 D E A Yes 1  Triethylbenzene TEB 32 D E A Yes 1	Propylene glycol	PPG	20 2	D	Е					To see the contract of the contract and the second of the contract of the cont	
Propylene tetramer         PTT         30         D         D         A         Yes         1           Sulfolane         SFL         39         D         E         A         Yes         1           Tetraethylene glycol         TTG         40         D         E         A         Yes         1           Tetrahydronaphthalene         THN         32         D         E         A         Yes         1           Toluene         TOL         32         D         C         A         Yes         1           Tricresyl phosphate (containing less than 1% ortho isomer)         TCP         34         D         E         A         Yes         1           Triethylbenzene         TEB         32         D         E         A         Yes         1	Propylene glycol methyl ether acetate	PGN	34	D	D				1		
Sulfolane         SFL         39         D         E         A         Yes         1           Tetraethylene glycol         TTG         40         D         E         A         Yes         1           Tetrahydronaphthalene         THN         32         D         E         A         Yes         1           Toluene         TOL         32         D         C         A         Yes         1           Tricresyl phosphate (containing less than 1% ortho isomer)         TCP         34         D         E         A         Yes         1           Triethylbenzene         TEB         32         D         E         A         Yes         1	Propylene tetramer	PTT		D							
Tetraethylene glycol         TTG         40         D         E         A         Yes         1           Tetrahydronaphthalene         THN         32         D         E         A         Yes         1           Toluene         TOL         32         D         C         A         Yes         1           Tricresyl phosphate (containing less than 1% ortho isomer)         TCP         34         D         E         A         Yes         1           Triethylbenzene         TEB         32         D         E         A         Yes         1	Sulfolane	SFL	39	D							
Tetrahydronaphthalene THN 32 D E A Yes 1 Toluene TOL 32 D C A Yes 1 Tricresyl phosphate (containing less than 1% ortho isomer) TCP 34 D E A Yes 1 Triethylbenzene TEB 32 D E A Yes 1	Tetraethylene glycol	TTG	40	D							
Toluene TOL 32 D C A Yes 1  Tricresyl phosphate (containing less than 1% ortho isomer) TCP 34 D E A Yes 1  Triethylbenzene TEB 32 D E A Yes 1	Tetrahydronaphthalene	THN	32	D							
Tricresyl phosphate (containing less than 1% ortho isomer)  TCP 34 D E A Yes 1  Triethylbenzene  TEB 32 D E A Yes 1	Toluene	TOL	32	D	С				1		
Triethylbenzene TEB 32 D E A Yes 1	Tricresyl phosphate (containing less than 1% ortho isomer)	TCP	34	D	Е		Α	Yes	1		
Triethylene glycol TEG 40 D E A Yes 1	Triethylbenzene	TEB	32	D	E		Α	Yes	1		
	Triethylene glycol	TEG	40	D	Е		Α	Yes	1		

Serial #: C1-1900216

23-May-19



## Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 27720

Official #: 1162077

Page 6 of 7

Shipyard: Trinity Ashland City

Cargo Ide	entification					Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period	
Triethyl phosphate	TPS	34	D	Ε		Α	Yes	1			
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1			
Trixylyl phosphate	TRP	34	D	Е		Α	Yes	1			
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			



Serial #: C1-1900216

Dated: 23-May-19



## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: KIRBY 27720

Official #: 1162077

Page 7 of 7

Shipyard: Trinity Ashland

Hull #: 4476

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

#### Cargo Identification

Name

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

Chem Code

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 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 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

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

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

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.

Hull Type

NA

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

Not applicable to barges certificated under Subchapter D.

#### Conditions of Carriage

Approved (Y or N)

Tank Group Vapor Recovery

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 Recover 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

es: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.

VCS Category

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

Category 1

(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.120, 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, 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 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,

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

Category 6 Category 7

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

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