

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

Certification Date: 10 Aug 2023 Expiration Date: 10 Aug 2028

### **Certificate of Inspection**

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

£		V.30		37.000				
Vessel Name	Official Numb	180	MO Numb	er	Call Sign	Service		5.70
KIRBY 28089	1246170	)				Tank I	Barge	
Hailing Port		16 —						
GIBSON, LA	Hull	Material	Horsey	ower	Propulsion			
0,000,11,12,1	Ste	el						
UNITED STATES								
Place Built	Delivery	Data	Keel Laid Date	Gross Tons	Net Tons	DWT	Length	
GALVESTON, TX			38	R-1619	R-1619	<b>5</b> 111	R-297.5	
	21Ju	n2013	12Dec2012	ŀ	F		10	
UNITED STATES								
0.5 . TV a 1 million at 17 (200 ), 100 1 (200 )								
Owner			Operato					
KIRBY INLAND MARINE L 55 WAUGH DR STE 1000	.P			Inland Mai MARKET				
HOUSTON, TX 77007					V, TX 77530			
UNITED STATES			UNIT	ED STATE	S			
					194			
This vessel must be manne 0 Certified Lifeboatmen, 0							nust be	
					Vilers			
0 Masters 0 Chief Mates	0 Licensed Mates 0 First Class Pilots		Engineers Assistant Enginee		лють			
0 Chier Mates 0 Second Mates	0 Radio Officers		nd Assistant Engiree					
0 Third Metes	0 Able Seamen		Assistant Engine					
0 Master First Class Pliot	0 Ordinary Seamen		sed Engineers					
0 Mate First Class Pilots	0 Deckhands		fied Member Engi	neer				
In addition, this vessel may Persons allowed: 0	carry 0 Passengers,	0 Othe	r Persons in cre	w, 0 Pers	ons in addition	to crew, and	I no Others. Tota	al
Route Permitted And Co	enditions Of Operation	on:			10.0- 000			
Lakes, Bays, and	700		d Coastwis	₿				
	•							

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/Perio	dic/Re-In:	spection		This certificate issued by: ( ) our line of L. L. WOODMAN, CDR, USCG, By direction
Date	Zone	A/P/R	SI	gnature	L. L. WOODMAN, CDR, USCG, By direction
8-16-24	HOUSTON	A	JAKE	FRANCIS	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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## **Certificate of Inspection**

Vessel Name: KIRBY 28089

(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
 31Aug2033
 10Aug2023
 21Jun2013

 Internal Structure
 31Aug2028
 10Aug2023
 09May2018

### --- 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

36620 Barrel A 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)
1	735	13.5
2	741	13.5
3	649	13.5

#### \*Loading Constraints - Stability\*

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
H	4048	10ft 3in	13.5	L, B, S
II	4048	10ft 3in	13.5	R
<b>#</b> 11	4048	10ft 3in	13.5	L, B, S
111	4048	10ft 3in	13.5	R

#### \*Conditions Of Carriage\*

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial No. C1-1204976 dated 11-Dec-12, may be carried. The specified hazardous cargoes may be carried only in the tanks indicated.

Per 46 CFR 150.130, the person in charge of the vessel is responsible for ensuring the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using figures, tables, and appendices of 46 CFR 150 in conjunction with the reactive group number from the "Compat Group No" column is 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.

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 No. C1-1204976, dated December 11, 2012, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

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.

<sup>\*</sup>Vapor Control Authorization\*



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Vessel Name: KIRBY 28089

\*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 8.54 lbs/gal. Cargoes with higher densities, up to 13.5 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 Exan	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1	21Jun2013	10Aug2023	31Aug2033	-	-	•
2	21Jun2013	10Aug2023	31Aug2033		-	-
3	21Jun2013	10Aug2023	31Aug2033	-	-	•
			Hydro Test			
Tank ld	Safety Valves	i	Previous	Last	Next	
1	-		-	**	-	
2	-		<b></b>	-	-	
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\*\*\*



Official #: 1246170

Certificate of Inspection

### Cargo Authority Attachment

Shipyard: Kennedy Construction

Dated:

C1-1204976

11-Dec-12

Hull #: H123

Tank Group Information	Cargo I	dentificat	ion	1	Tanks						Environmental Control		Special Requirements				
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seq		Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Tem
A #1P/S, #2P/S, #3P/S	13.5	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, .50-81(a), .50- 81(b),	55-1(b), (c), (e), (f), (j), 56-1(a), (b), (c), (d), (e), (f), (g).	NR	Nó

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.

**List of Authorized Cargoes** 

Cargo Identificatio	Conditions of Carriage									
			;	:			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 Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Acetonitrile	ATN	37	0	C	111	Α	Yes	3	No	G
Acrylonitrile	ACN	15 <sup>2</sup>	0	С	11	Α	Yes	4	.50-70(a), .55-1(a)	G
Adiponitrile	ADN	37	0	Ε	!!	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 <sup>2</sup>	0	NA	111	Α	No	N/A	. 50-81, 50-86	G .
Aminoethylethanolamine	AEE	8	О	E	111	Α	Yes	. 1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 <sup>2</sup>	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	Ш	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	11	Α	No	N/A	No	G
Benzene	BNZ	32	0	С	III	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 <sup>2</sup>	0	С	III	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 <sup>2</sup>	0	С	111	Α	Yes	1	.50-80, .56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	111	Α	Yes	: 1	.50-60	G
Butyl acrylate (all isomers)	BAR	14	0	Đ	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	BMH	14	0	D	111	Α	Yes	3 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)	CPC	18	0	D	H	Α	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	Ш	Α	No	N/A	No No	G
Caustic potash solution	CPS	5 <sup>2</sup>	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	5 <sup>2</sup>	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COL	21	0	Ε	II.	Α	No	N/A	.50-73	G
Chlorobenzene	CRE	36	0	D	111	Α	Yes	3 1	No	G
Chloroform	CRF	36	0	NA	111	Α	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	111	Α	Yes	s 1	.50-73	G
Creosote	CCV	V 21 <sup>2</sup>	0	E	Ш	Α	Ye	s 1	No	G
Cresols (all isomers)	CRS	21	0	E	111	Α	Ye	s 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	Ye	s 1	.55-1(f)	G
Crotonaldehyde	CTA	192	0	С	11	Α	Ye	s 4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHO	<del></del>	0	С	111	Α	No	N/A	A No	G
Cyclohexanone	CCH	1 18	0	D	III	Α	Ye	s 1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 2	0	Ε	Ш	Α	Ye	s 1	.56-1 (b)	G
Cyclohexylamine	CHA	7	0	D	111	Α	Ye	s 1	.56-1(a), (b), (c), (g)	G

<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.



Serial #: C1-1204976 Dated: 11-Dec-12

Certificate of Inspection

### Cargo Authority Attachment

Shipyard: Kennedy Construction

Hull #: H123

Official #: 1246170

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Cargo Identificatio	Conditions of Carriage									
								ecovery		
Name Cyclopentadiene, Styrene, Benzene mixture	Chem Code CSB	Compat Group No 30	Sub Chapter O	Grade D	Hull Type III	Tank Group A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of .50-60, .56-1(b)	Insp. Period G
iso-Decyl acrylate	IAI	14	0	E	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	E	111	Α	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	0	С		A	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	II.	A	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	III	Α	No	N/A	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2	? 0	A	III	A	No	N/A		G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 <sup>2</sup>	Ó	Ε	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	C	111	Α	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	c	111	A	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	c	111	Α	Yes	3	No	G
1,3-Dichloropropene	DPU	15	ō	D	11	A	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX		0	Ç	11	A	Yes	1	No	G
Diethanolamine	DEA	8	0	E	111	A	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	c	III	Α	Yes	3	.55-1(c)	G
Diethylenetriamine	DET	72	0	Ē		^\A	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0			A	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	<u></u>		A	Yes	1	.55-1(c)	G
Diisopropylamine	DIA	7				^	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0			A	Yes	3	.56-1(b)	G
Dimethylethanolamine	DMB	8				A	Yes	1	.56-1(b), (c)	G
Dimethylformamide	DMF	10	0	D	(11	<u>^</u> A	Yes	1	.55-1(e)	G
Di-n-propylamine	DNA	7		C	<u>                                    </u>		Yes	3	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT		0	E	<u>''</u> _	^_	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43	- 0	#	II	^_	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	<del>-</del>		'!		No	N/A	No	G
Ethanolamine	MEA	8	0	E	111	Α	Yes	1	.55-1(a)	G
Ethyl acrylate	EAC	14	0	C	111	Α Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solution (72% or less)	EAN	7	0				No	N/A	.55-1(b)	G
N-Ethylbutylamine	EBA		0		111		Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	111	A			.55-1(b)	G
Ethylene cyanohydrin	ETC	20	- 0	E	111	A	Yes Yes	<u>1</u> 1	No No	<u> </u>
Ethylenediamine	EDA	72	0	D	111				.55-1(c)	G
Ethylene dichloride	EDC	36 <sup>2</sup>		C		A	Yes		No	- G
Ethylene glycol hexyl ether	EGH	40	0	E	111	A	Yes	1	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	A	No	N/A	No	·····
Ethylene glycol propyl ether	EGP	40	0	E	111	A	Yes	1	No	G G
		<del></del>				A	Yes	1	.50-70(a), .50-81(a), (b)	
2-Ethylhexyl acrylate	EAI ETM	14	0	E	[1]	A	Yes	2	.50-70(a)	G
Ethyl methacrylate  2. Ethyl 3 provideration		14		D/E		A	Yes	2	.50-70(8) No	- G
2-Ethyl-3-propylacrolein	EPA	19 2	0	E	111	Α	Yes	1		<u> </u>
Formaldehyde solution (37% to 50%)	FMS	19 2	0	D/E		Α .	Yes	1	.55-1(h)	G
Furfural  Clutteraldehyde solution (50% or less)	FFA	19	0	D		Α	Yes	1	.55-1(h)	G
Glutaraldehyde solution (50% or less)  Hexamethylenediamine solution	GTA	19	0	NA E	111	A	No	N/A	No SE (A)	G
•	HMC		0	E	111	A	Yes	1	.55-1(c)	G
Hexamethyleneimine	HMI	7		_ <u>c</u>	11	A	Yes	1	.56-1(b), (c)	G
Hydrocarbon 5-9	HFN			C	111	A	Yes	1	.50-70(a), .50-81(a), (b)	G
Isoprene	IPR	30	0	Α	- 111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G



11-Dec-12

# Certificate of Inspection

## Cargo Authority Attachment

Shipyard: Kennedy Construction

Hull #: H123

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Cargo Identification	Conditions of Carriage									
Name	Chem Code	Compat Group No		Grade	Hull Type	Tank Group	App'd (Y or N)		Special Requirements in 46 CFR 151 General and Mat's of	Insp. Period
Isoprene, Pentadiene mixture	IPN		0	В	111	A	No	N/A		G G
Kraft pulping liquors (free alkali content 3% or more)(including: Black Green, or White liquor)	, KPL	5		NA	111	Α	No 	N/A		******************************
Mesityl oxide	MSO	18 <sup>2</sup>	0	D	111	Α	Yes	1	No	G
Methyl acrylate	MAM	14	0	С	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Methylcyclopentadiene dimer	MCK	30	0	С		Α	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	E	111	Α	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	E	III	Α	Yes	1	.55-1(e)	G
Methyl methacrylate	MMM	1 14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
2-Methylpyridine	MPR	9	0	D	III	Α	Yes	3	.55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D		Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 2	0	D	111	Α	Yes	1	.55-1(c)	G
Nitroethane	NTE	42	0	D	- 11	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	111	Α	No	N/A	No	G
Polyethylene polyamines	PEB	7 2	0	E	Ш	Α	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	E	III	Α	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	Ε	III	Α	Yes	1	.56-1(b), (c)	G
iso-Propylamine	IPP	7	0	Α	11	Α	No	N/A	.55-1(c)	G
Pyridíne	PRD	9	0	С	111	Α	Yes	1	.55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxic	de) SAP		0		111	Α	No	N/A	.50-73, .55-1(j)	G
Sodium aluminate solution (45% or less)	SAU	5	0	NA		Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	SDD	0 1,2		NA	111	Α	No	N/A		G
Sodium hypochlorite solution (20% or less)	SHQ		0	NA	111	A	No	N/A		G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1.2		NA	<u></u> []]		Yes		.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1,2		NA	111	A	No	N/A	50-73, 55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	. 0	NA		Α	No	N/A	.50-73, 55-1(b)	G
Styrene (crude)	STX		0	D	III	Α	Yes		No	G
Styrene monomer	STY	30	0	D	111	Α	Yes		.50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	111	A	No	N/A	No	G
Tetraethylenepentamine	ТТР	7	0	E		Α	Yes		.55-1(c)	G
Tetrahydrofuran	THF	41		c		Α	Yes		.50-70(b)	G
Toluenediamine	TDA	9		E	11	A	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G
1.2.4-Trichlorobenzene	TCB	36	o	E	111	A	Yes		No	G
	TCM		0	NA		^_	Yes		.50-73, .56-1(a)	G
1,1,2-Trichloroethane	TCL	36 2	0				Yes		No	G
Trichloroethylene				NA.	<u> </u>				.50-73, .56-1(a)	G
1,2,3-Trichloropropane	TCN		0	E	<u> </u>	A	Yes		.55-1(b)	G
Triethanolamine	TEA		0	E	111	A	Yes		.55-1(e)	G
Triethylamine	TEN		0	<u> </u>	11	A	Yes			G
Triethylenetetramine	TET			E		A	Yes		.55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	TPB		0	NA		A	No	N/A		
Trisodium phosphate solution	TSP		0	NA	111	A	No	N/A		G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS		0	NA	111	Α	No	N/A		G
Vanillin black liquor (free alkali content, 3% or more).	VBL		0	NA	111	Α	No	N/A		G
Vinyl acetate	VAN	1 13	0	С	H	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Vinyl neodecanate	VND		0	E	111	Α	No	N/A		G
Vinyltoluene	VNT	13	0	D	111	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (	G



# Certificate of Inspection

## Cargo Authority Attachment

Shipyard: Kennedy Construction

Hull #: H123

11-Dec-12

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Cargo Identification	n					<u> </u>		Condi	tions of Carriage	A A A
								Recovery		
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Tvoe	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mal'ls of	Insp. Period
Subchapter D Cargoes Authorized for Vapor Contro	ol									
Acetone	ACT	18 <sup>2</sup>	D	С		Α	Yes	11		
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	E		Α	Yes	11		
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	11		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1		
Benzyl alcohol	BAL	21	D	E		Α	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E		Α	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1		
Butyl alcohol (iso-)	IAL	20 <sup>2</sup>	D	D		Α	Yes	11		
Butyl alcohol (n-)	BAN	20 ²	D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS	20 <sup>2</sup>	D	С		Α	Yes	1		
Butyl alcohol (tert-)	BAT		D	Ç		Α	Yes	11		
Butyl benzyl phthalate	BPH	34	D	E		Α	Yes	1		
Butyl toluene	BUE	32	D	D		Α	Yes	11		
Caprolactam solutions	CLS	22	D	E		Α	Yes	1		
Cyclohexane	CHX	31	D	С		Α	Yes	11		
Cyclohexanol	CHN	20	D	E		A	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	Ë		Α	Yes	1		
n-Decaldehyde	DAL	19	D	E		Α	Yes	1		
Decene	DCE	30	D	D		Α	Yes	11		
Decyl alcohol (all isomers)	DAX	20 <sup>2</sup>	D	E		Α	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		Α	Yes	11		
Diacetone alcohol	DAA	20 <sup>2</sup>	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 <sup>2</sup>	D	E		Α	Yes	1		
Diisobutylene	DBL	30	D	¢		Α	Yes	1		
Diisobutyl ketone	DIK	18	D	D		A	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	E	••••	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		A	Yes	11		~
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		A	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1		
Ethyl acetate	ETA	34	D	C		A	Yes	1		

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



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# Certificate of Inspection

## Cargo Authority Attachment

Shipyard: Kennedy Construction

Hull #: H123

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Cargo Identification	Cargo Identification									
						!	Vapor I	Recovery		
Name Ethyl acetoacetate	Chem Code EAA	Compat Group No 34	Sub Chapter D	Grade E	Hull Type	Tank Group A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Ethyl alcohol	EAL	20 <sup>2</sup>	D	С		Α	Yes	1		
Ethylbenzene	ETB	32	D	C		Α	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		Α	Yes	1		
Ethyl cyclohexane	ECY	31	D	D	······································	A	Yes	1		
Ethylene glycol	EGL	20 <sup>2</sup>	D	E	***************************************	A	Yes	<u>·</u>		
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		Α	Yes	<u>·</u>		
Ethyl-3-ethoxypropionate	EEP	34	 D	D		Α	Yes	<u>-</u> 1		
2-Ethylhexanol	EHX	20	D	E		Α	Yes	1		
Ethyl propionate	EPR	34	D	c		A	Yes	1		
Ethyl toluene	ETE	32	Ď	D		A	Yes	1		
Formamide	FAM	10	D	E		A	Yes	<u>'</u>		
Furfuryl alcohol	FAL	20 2	D	E		^ A	Yes	<u>'</u>		
	GAK	33	D	A/C	·····	A	Yes	1		
Gasoline blending stocks: Alkylates	GRF	33	D	A/C		A	Yes	1		
Gasoline blending stocks: Reformates  Gasolines: Automotive (containing not over 4.23 grams lead per	GAT	33	ם	C		A	Yes	1	······································	
gallon)										
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		Α	Yes	1		
Gasolines: Casinghead (natural)	GCS	33	D	A/C		Α	Yes	1		
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1		
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1		
Glycerine	GCR	20 <sup>2</sup>	D	E		Α	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1		
Heptanoic acid	HEP	4	D	E		Α	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1		
Heptene (all isomers)	HPX	30	Ď	С		Α	Yes	2		
Heptyl acetate	HPE	34	D	E		Α	Yes	1	·	
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 <sup>2</sup>	D	B/C		Α	Yes	1	· · · · · · · · · · · · · · · · · · ·	
Hexanoic acid	нхо	4	D	E		Α	Yes	1		
Hexanol	HXN	20	Đ	Ď		Α	Yes	1		
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	E		Α	Yes	1		
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	Q	D		Α	Yes	1		
Kerosene	KRS	33	D	D		Α	Yes	1		
Methyl acetate	MTT	34	Ď	Ď	······································	Α	Yes	1		
Methyl alcohol	MAL	20 <sup>2</sup>	D	С		Α	Yes			
Methylamyi acetate	MAC		Ď	D		Α	Yes			
Methylamyl alcohol	MAA		D	D		A	Yes			
Methyl amyl ketone	MAK		D	D		A	Yes			
Methyl tert-butyl ether	MBE		D	c		Α	Yes			
Methyl butyl ketone	MBK		D	C		A	Yes			
Methyl butyrate	MBU			c		A	Yes			



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### Cargo Authority Attachment

Shipyard: Kennedy Construction

Hull #: H123

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Cargo Identifica	ition							Condi	tions of Carriage			
			*****			Vapor Recovery						
Name Methyl ethyl ketone	Chem Code MEK	Compat Group No 18 2	Sub Chaoter D	Grade C	Hull Tvoe	Tank Groun A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Matts of	Insp. Period		
Methyl heptyl ketone	MHK	18	D	D		A	Yes	1				
	MIK	18 2	D	C			Yes	1				
Methyl isobutyl ketone	MNA	32					Yes	1		····-		
Methyl naphthalene (molten)	MNS	33	D	D								
Mineral spirits	··	30	0	D		<u>A</u>	Yes	1				
Myrcene	MRE	33	D	#		A	Yes	1				
Naphtha: Heavy	NAG					<u> </u>	Yes	1				
Naphtha: Petroleum	PTN	33	D	#		A	Yes	1				
Naphtha: Solvent	NSV	33	<u>D</u>	D		A	Yes	1				
Naphtha: Stoddard solvent	NSS	33		<u>D</u>		Α .	Yes	1				
Naphtha: Vamish makers and painters (75%)	NVM	33	D	С		Α	Yes	1				
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		Α	Yes	1				
Nonene (all isomers)	NON	30	D	D		Α	Yes	2				
Nonyl alcohol (all isomers)	NNS	20 <sup>2</sup>	D	E		Α	Yes	1				
Nonyl phenol	NNP	21	D	E		Α	Yes	1		*****		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		Α	Yes	1				
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		Α	Yes	11				
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes	1				
Octanol (all isomers)	OCX	20 <sup>2</sup>	D	E		Α	Yes	1				
Octene (all isomers)	OTX	30	D	С		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	Đ	D/E		Α	Yes	1				
Oil, fuel: No. 5	OFV	33	D	D/E		Α	Yes	1				
Oil, fuel: No. 6	OSX	33	D	E		Α	Yes	1		***************************************		
Oil, misc: Crude	OIL	33	D	C/D		Α	Yes	1				
Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1				
Oil, misc: Gas, high pour	OGP	33	D	E		Α	Yes	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Oil, misc: Lubricating	OLB	33	D	E		Α	Yes	1				
Oil, misc: Residual	ORL	33	D	Ε		Α	Yes	1				
Oil, misc: Turbine	OTB	33	D	E	•	Α	Yes	1				
n-Pentyl propionate	PPE	34	D	D		Α	Yes	1				
alpha-Pinene	PIO	30	D	D		A	Yes	1		<del></del>		
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			·····	A	Yes	1				
	PGC	40				·						
Polypropylene glycol	IAC	34	D	C		_ <u>A</u>	Yes	1		<b></b>		
iso-Propyl acetate	PAT	34	D	C		····		<u>'</u>				
n-Propyl acetate						A	Yes					
iso-Propyl alcohol	IPA	20 2	_ D	<u>C</u>		A	Yes	1				
n-Propyl alcohol	PAL	20 2	D	C		A	Yes	1				
Propylbenzene (all isomers)	PBY	32	<u>D</u>	D		Α	Yes					
iso-Propylcyclohexane	IPX	31	D	D		<u> </u>	Yes	1				
Propylene glycol	PPG	20 <sup>2</sup>	D	E		Α	Yes	1				
Propylene glycol methyl ether acetate	PGN	34	<u>D</u>	D		Α	Yes	1				
Propylene tetramer	PTT	30	D	D		Α	Yes	1				
Sulfolane	SFL	39	D	E		Α	Yes	1				

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# Certificate of Inspection

## Cargo Authority Attachment

Shipyard: Kennedy Construction

Hull #: H123

Official #: 1246170

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Cargo Identification						Conditions of Carriage				
			-	-		Vapor F		Recovery		***************************************
Name Tetraethylene glycol	Chem Code TTG	Compat Group No 40	Sub Chapter D	Grade E	Hull Type	Tank Groun A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'is of	Insp. Period
Tetrahydronaphthalene	THN	32	D	Е		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	Ė		Α	Yes	1		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1		



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Cargo Authority Attachment

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Shipyard: Kennedy Const

Hull #: H123

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

Cargo Identification

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 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.

Official #: 1246170

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.

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

Note 1

Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-

Note 2 0001. Telephone (202) 372-1425.

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

Subchapter Subchapter D Subchapter O Note 3

Note 4

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.

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

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

The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.

Those subchapter O cargoes which are not classified as a flammable or combustible liquid.

No flammability/combustibility grade has been assigned yet, as the necessary flash point/vapor pressure data for such assignments are presently not available.

Hull Type

NA

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

Tank Group Vapor Recove Approved (Y or N)

The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.

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

#### Conditions of Carriage

Tank Group Vapor Recovery Approved (Y or N) The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.

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

VCS Category

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 155.120, 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) Polymenization 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

Category 3

(Highly, toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.

Category 4

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

Category 5

(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air ties 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