



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

Certification Date: 10 Jun 2020  
Expiration Date: 10 Jun 2025

# Certificate of Inspection

For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V114, for a SAFE MANNING DOCUMENT

Vessel Name	Official Number	IMO Number	Call Sign	Service
KIRBY 27723	1166472			Tank Barge

Hailing Port	Hull Material	Horsepower	Propulsion
WILMINGTON, DE UNITED STATES	Steel		

Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
ASHLAND CITY, TN UNITED STATES		18Feb2005	R-1632	R-1632		R-300.0 110

Owner	Operator
KIRBY INLAND MARINE LP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007 UNITED STATES	KIRBY INLAND MARINE, LP 18350 MARKET STREET CHANNELVIEW, TX 77530 UNITED STATES

This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators.

0 Masters	0 Licensed Mates	0 Chief Engineers	0 Oilers
0 Chief Mates	0 First Class Pilots	0 First Assistant Engineers	
0 Second Mates	0 Radio Officers	0 Second Assistant Engineers	
0 Third Mates	0 Able Seamen	0 Third Assistant Engineers	
0 Master First Class Pilot	0 Ordinary Seamen	0 Licensed Engineers	
0 Mate First Class Pilots	0 Deckhands	0 Qualified Member Engineer	

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

Route Permitted And Conditions Of Operation:  
---Lakes, Bays, and Sounds plus Limited Great Lakes---

Also, in fair weather only, Lake Michigan on voyages between Chicago, Illinois and Burns Harbor, Indiana not more than three (3) miles offshore and coastwise not more than twenty (20) miles from shore between St. Marks and Carrabelle, Florida.

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

\*\*\*SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION\*\*\*

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

Annual/Periodic/Re-Inspection				This certificate issued by: Nicole D. Rodriguez, DR, USCG, By Direction
Date	Zone	A/PIR	Signature	
2-15-2021	New Orleans	A	Scott Firmin	Officer in Charge, Marine Inspection Sector Houston-Galveston
4-28-2022	Houston	P	Ruben Montes	
5-12-23	HOU	A	BEN MURPHY	
6-23-2024	MCHA	A	Murphy Ben	
				Inspection Zone



# Certificate of Inspection

Vessel Name: KIRBY 27723

Thermal fluid heater may only be operated when carrying grade "E" cargoes.

The vessel is inspected and approved for the carriage of grade "E" combustible liquids when transported in molten form at elevated temperatures.

This tank barge is participating in the Eighth & Ninth Coast Guard District's Tank Barge Streamlined Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with its Tank Barge Action Plan (TAP). Inspection issues concerning this barge should be directed to OCMI Houston-Galveston, TX.

**---Hull Exams---**

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	30Apr2025	17Apr2015	12May2005
Internal Structure	30Jun2025	10Jun2020	17Apr2015

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

Authorization: GRADE A AND LOWER AND SPECIFIED HAZARDOUS CARGOES.

Total Capacity	Units	Highest Grade Type	Part151 Regulated	Part153 Regulated	Part154 Regulated
28484	Barrels	A	Yes	No	No

**\*Hazardous Bulk Solids Authority\***

**\*Loading Constraints - Structural\***

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1 P/S	812	8.90
2 P/S	810	8.90
3 P/S	750	8.90

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

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	3526	9ft 6in	8.90	
II	3526	9ft 6in	8.90	
III	4521	11ft 6in	8.90	
III	4521	11ft 6in	8.90	

**\*Conditions Of Carriage\***

Only those cargoes named in the vessel's Cargo Authority Attachment, serial #C1-0504065, dated April 11, 2005, and Grade "A" and lower cargoes may be carried.

**\*Benzene Prohibition\***

Vessel not authorized to carry Benzene or Benzene containing cargoes with a Benzene concentration of 0.5% of more by volume.

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.

**--- Inspection Status ---**



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Vessel Name: KIRBY 27723

**\*Cargo Tanks\***

Tank Id	Internal Exam			External Exam		
	Previous	Last	Next	Previous	Last	Next
1 P/S	12May2005	17Apr2015	30Apr2025	-	-	-
2 P/S	12May2005	17Apr2015	30Apr2025	-	-	-
3 P/S	12May2005	17Apr2015	30Apr2025	-	-	-

Hydro Test

Tank Id	Safety Valves	Hydro Test		
		Previous	Last	Next
1 P/S	-	-	-	-
2 P/S	-	-	-	-
3 P/S	-	-	-	-

**---Conditional Portable Fire Extinguisher Requirements---**

Required Only During Transfer of Cargo or Operation of Barge Machinery

**--- Fire Fighting Equipment ---**

Number of Fireman Outfits - 0

**\*Fire Extinguishers - Hand portable and semi-portable\***

Quantity	Class Type
3	40-B

**---Certificate Amendments---**

Amending Unit	Amendment Date	Amendment Remark
Sector Houston/Galveston	15Jan2021	Amended CAA Issued Date.

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



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **KIRBY 27723**  
Official #: **1166472**

Shipyard: **Trinity Ashland City**  
Hull #: **4486**

### 46 CFR 151 Tank Group Characteristics

Tank Group Information		Cargo Identification			Hull Type	Cargo Seg Tank	Tanks			Cargo Transfer		Environmental Control		Fire Protection Provided	Special Requirements			Elec Haz	Temp
Trk Grp	Tanks in Group	Density	Press.	Temp.			Type	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space		General	Materials of Construction			
A	#1 - #3 P/S	8.91	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Restr.	II	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:
- 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.
  - 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.
  - 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 Identification							Conditions of Carriage				
Name	Chem Code	Compat Group	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat's of Construction		
							App'd (Y or N)	VCS Category			

#### Authorized Subchapter O Cargoes

Acetonitrile	ATN	37	O	C	III	A	No	N/A	No
Adiponitrile	ADN	37	O	E	II	A	No	N/A	No
Alkyl(C7-C9) nitrates	AKN	34 <sup>2</sup>	O	NA	III	A	No	N/A	.50-81, .50-86
Butyl acrylate (all isomers)	BAR	14	O	D	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Butyl methacrylate	BMH	14	O	D	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Butyraldehyde (all isomers)	BAE	19	O	C	III	A	No	N/A	.55-1(h)
Camphor oil (light)	CPO	18	O	D	II	A	No	N/A	No
Chemical Oil (refined, containing phenolics)	COD	21	O	E	II	A	No	N/A	.50-73
Coal tar naphtha solvent	NCT	33	O	D	III	A	No	N/A	.50-73
Creosote	CCW	21 <sup>2</sup>	O	E	III	A	No	N/A	No
Cresols (all isomers)	CRS	21	O	E	III	A	No	N/A	No
Crotonaldehyde	CTA	19 <sup>2</sup>	O	C	II	A	No	N/A	.55-1(h)
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		O	C	III	A	No	N/A	No
Ethyl acrylate	EAC	14	O	C	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Ethylene cyanohydrin	ETC	20	O	E	III	A	No	N/A	No
Ethylene glycol hexyl ether	EGH	40	O	E	III	A	No	N/A	No
Ethylene glycol monoalkyl ethers	EGC	40	O	D/E	III	A	No	N/A	No
Ethylene glycol propyl ether	EGP	40	O	E	III	A	No	N/A	No
2-Ethylhexyl acrylate	EAI	14	O	E	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Ethyl methacrylate	ETM	14	O	D/E	III	A	No	N/A	.50-70(a)
2-Ethyl-3-propylacrolein	EPA	19 <sup>2</sup>	O	E	III	A	No	N/A	No
Hydrocarbon 5-9	HFN		O	C	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Isoprene	IPR	30	O	A	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Mesityl oxide	MSO	18 <sup>2</sup>	O	D	III	A	No	N/A	No
Methyl acrylate	MAM	14	O	C	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Methylcyclopentadiene dimer	MCK	30	O	C	III	A	No	N/A	No
Methyl methacrylate	MMM	14	O	C	III	A	No	N/A	.50-70(a), .50-81(a), (b)
alpha-Methylstyrene	MSR	30	O	D	III	A	No	N/A	.50-70(a), .50-81(a), (b)
1- or 2-Nitropropane	NPM	42	O	D	III	A	No	N/A	.50-81
1,3-Pentadiene	PDE	30	O	A	III	A	No	N/A	.50-70(a), .50-81
Styrene (crude)	STX		O	D	III	A	No	N/A	No
Styrene monomer	STY	30	O	D	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Tetrahydrofuran	THF	41	O	C	III	A	No	N/A	.50-70(b)
Trisodium phosphate solution	TSP	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c).
Vinyl acetate	VAM	13	O	C	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Vinyl neodecanate	VND	13	O	E	III	A	No	N/A	.50-70(a), .50-81(a), (b)



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: KIRBY 27723

Official #: 1166472

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Shipyard: Trinity Ashland City

Hull #: 4486

Cargo Identification						Conditions of Carriage			
Name	Chem Code	Compat Group	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mats of Construction
							App'd (Y or N)	VCS Category	



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: KIRBY 27723  
Official #: 1166472

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Shipyard: Trinity Ashland  
Hull #: 4486

### 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.
Compatibility Group No.	The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.
Note 1	Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (G-MSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20563-0001. Telephone (202) 267-1217.
Note 2	See Appendix I to 46 CFR Part 150 - exceptions to the compatibility 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 D, E Note 4	Flammable liquid cargoes, as defined in 46 CFR 30-10.22. Combustible liquid cargoes, as defined in 46 CFR 30-10.15. The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
NA #	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 I II III NA	The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1. I: 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). II: Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3). III: Designed to carry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4). NA: Not applicable to barges certificated under Subchapter D.

#### Conditions of Carriage

Tank Group	The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.
Vapor Recovery 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 Characteristics" listed on page 1) which is authorized for carriage of the named cargo.
Vapor Recovery 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.
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 156.170, 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 components 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 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 polymerizes) Must comply with requirements of Categories 1, 2 and 5.
none	The cargo has not been evaluated/classified for use in vapor control systems.