



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

Certification Date:	13 Apr 2020
Expiration Date:	13 Apr 2021

Temporary 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.

This Temporary Certificate of Inspection is issued under the provision of Title 46 United States Code, Section 399, in lieu of the regular certificate of inspection, and shall be in force only until the receipt on board said vessel of the original certificate of inspection, this certificate in no case to be valid after one year from the date of inspection.

Vessel Name	Official Number	IMO Number	Call Sign	Service
KIRBY 30-01	1254583			Tank Barge

Hailing Port	Hull Material	Horsepower	Propulsion
HOUMA, LA	Steel		
UNITED STATES			

Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
MORGAN CITY, LA	16Jan2015	01Nov2013	R- 1-2350	R- 1-1024		R-294.6 1-294.6
UNITED STATES						

Owner	Operator
KIRBY INLAND MARINE LP 55 WAUGH DR STE 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:

---Oceans---

BARGE IS TO BE LOADED AND OPERATED IN ACCORDANCE WITH THE RESTRICTIONS PLACED ON IT'S STABILITY LETTER SERIAL NO. C1-1500193 DATED JANUARY 14, 2015, AND ON CURRENT LOADLINE CERTIFICATE.

This tank barge is participating in the Eighth and 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. Inspection issues concerning this barge should be directed to OCMI Houston-Galveston.

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

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

Annual/Periodic/Re-Inspection				This certificate issued by <i>J.J. Andrew, CDR</i> J.J. ANDREW, CDR, USCG, By direction Officer in Charge, Marine Inspection Marine Safety Unit Port Arthur Inspection Zone
Date	Zone	A/P/R	Signature	



Temporary Certificate of Inspection

Vessel Name: KIRBY 30-01

---Hull Exams---

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	31Jan2025	13Apr2020	16Jan2015
Internal Structure	31Jul2022	13Apr2020	05Dec2017

---Stability---

Type	Issued Date	Office
Letter	14Jan2015	Morgan City, LA

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

Authorization: Flammable/Combustible Liquids

Total Capacity	Units	Highest Grade Type	Part151 Regulated	Part153 Regulated	Part154 Regulated
29040	Barrels	A	No	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 P/S	509	12.5
2 P/S	509	12.5
3 P/S	509	12.5
4 P/S	509	12.5
5 P/S	509	12.5

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
III	5094	12ft 6in	8.7	

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial # C1-1403066, dated September 16, 2014, may be carried. The specified hazardous cargoes may be carried only in the tanks indicated.

Per 46 CFR, Part 39, excluding Part 39.40, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letter serial # C1-1403066, dated September 16, 2014, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

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 Part 197, subpart C are applied.

The VCS has been approved with a pressure side of 1.5 psig pressure vacuum (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 3 psi.

--- Inspection Status ---



Temporary Certificate of Inspection

Vessel Name: KIRBY 30-01

Cargo Tanks

Tank Id	Internal Exam			External Exam		
	Previous	Last	Next	Previous	Last	Next
1 P/S	16Jan2015	13Apr2020	30Apr2030	-	-	-
2 P/S	16Jan2015	13Apr2020	30Apr2030	-	-	-
3 P/S	16Jan2015	13Apr2020	30Apr2030	-	-	-
4 P/S	16Jan2015	13Apr2020	30Apr2030	-	-	-
5 P/S	16Jan2015	13Apr2020	30Apr2030	-	-	-

Hydro Test

Tank Id	Safety Valves	Hydro Test		
		Previous	Last	Next
1 P/S	-	-	-	-
2 P/S	-	-	-	-
3 P/S	-	-	-	-
4 P/S	-	-	-	-
5 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
2	40-B

END



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **CTCO 3000**
Official #: 1254583

Shipyard: Halimar
Hull #: 178

Tank Group Characteristics

Tnk Grp	Tanks in Group	Density	Flammability Grade	Fire Protection	Comments
A	#1P/S, #2P/S, #3P/S, #4P/S, #5 P/S	8.7	A	Portable	None

This vessel is approved to collect vapors of the following 46 CFR Subchapter D flammable and/or combustible liquid cargoes using the approved onboard vapor control system.

Subchapter D Cargoes Authorized for Vapor Control

Name	Cargo Identification				Conditions of Carriage	
	Chem Code	Compat Group No	IMO Pollution Category	Grade	Tank Group	Vapor Recovery App'd (Y or N) VCS Category
Acetone	ACT	18 ²	III	C	A	Yes 1
Acetophenone	ACP	18	@D	E	A	Yes 1
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	A	E	A	Yes 1
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	B	E	A	Yes 1
Amyl acetate (all isomers)	AEC	34	C	D	A	Yes 1
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D	A	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	A	Yes 1
Butyl acetate (all isomers)	BAX	34	C	D	A	Yes 1
Butyl alcohol (iso-)	IAL	20 ²	III	D	A	Yes 1
Butyl alcohol (n-)	BAN	20 ²	III	D	A	Yes 1
Butyl alcohol (sec-)	BAS	20 ²	III	C	A	Yes 1
Butyl alcohol (tert-)	BAT	20 ²	III	C	A	Yes 1
Butyl toluene	BUE	32	@A	D	A	Yes 1
Cyclohexane	CHX	31	C	C	A	Yes 1
Cyclohexanol	CHN	20	D	E	A	Yes 1
p-Cymene	CMP	32	C	D	A	Yes 1
iso-Decaldehyde	IDA	19	@C	E	A	Yes 1
n-Decaldehyde	DAL	19	@B	E	A	Yes 1
Decene	DCE	30	B	D	A	Yes 1
Decyl alcohol (all isomers)	DAX	20 ²	B	E	A	Yes 1
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	III	E	A	Yes 1
Diacetone alcohol	DAA	20 ²	D	D	A	Yes 1
Diethylbenzene	DEB	32	A	D	A	Yes 1
Diisobutylene	DBL	30	B	C	A	Yes 1
Diisobutyl ketone	DIK	18	D	D	A	Yes 1
Dilsopropylbenzene (all isomers)	DIX	32	A	E	A	Yes 1
Diethyl phthalate	DOP	34	III	E	A	Yes 1
Dipentene	DPN	30	C	D	A	Yes 1
Diphenyl	DIL	32	A	D/E	A	Yes 1
Dipropylene glycol	DPG	40	III	E	A	Yes 1
Distillates: Flashed feed stocks	DFF	33	I	E	A	Yes 1
Distillates: Straight run	DSR	33	I	E	A	Yes 1
Dodecene (all isomers)	DOZ	30	B	D	A	Yes 1
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	III	E	A	Yes 1
2-Ethoxyethyl acetate	EEA	34	C	D	A	Yes 1
Ethoxy triglycol (crude)	ETG	40	D	E	A	Yes 1

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Cargo Authority Attachment

Vessel Name: **CTCO 3000**

Official #: 1254583

Shipyards: Halimar

Hull #: 178

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Cargo Identification						Conditions of Carriage		
Name	Chem Code	Compat Group No	IMO Pollution Category	Grade	Tank Group	Vapor Recovery		
						App'd (Y or N)	VCS Category	
Ethyl acetate	ETA	34	D	C	A	Yes	1	
Ethyl alcohol	EAL	20 ²	III	C	A	Yes	1	
Ethylbenzene	ETB	32	B	C	A	Yes	1	
Ethyl butanol	EBT	20	@D	D	A	Yes	1	
Ethyl tert-butyl ether	EBE	41	C	C	A	Yes	1	
Ethyl butyrate	EBR	34	C	D	A	Yes	1	
Ethyl cyclohexane	ECY	31	C	D	A	Yes	1	
Ethylene glycol butyl ether acetate	EMA	34	C	E	A	Yes	1	
Ethylene glycol phenyl ether	EPE	40	D	E	A	Yes	1	
Ethyl-3-ethoxypropionate	EEP	34	C	D	A	Yes	1	
2-Ethylhexanol	EHX	20	@C	E	A	Yes	1	
Ethyl propionate	EPR	34	D	C	A	Yes	1	
Ethyl toluene	ETE	32	B	D	A	Yes	1	
Gasoline blending stocks: Alkylates	GAK	33	I	A/C	A	Yes	1	
Gasoline blending stocks: Reformates	GRF	33	I	A/C	A	Yes	1	
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	I	C	A	Yes	1	
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	I	C	A	Yes	1	
Gasolines: Casinghead (natural)	GCS	33	I	A/C	A	Yes	1	
Gasolines: Polymer	GPL	33	I	A/C	A	Yes	1	
Gasolines: Straight run	GSR	33	I	A/C	A	Yes	1	
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	C	C	A	Yes	1	
Heptanoic acid	HEP	4	D	E	A	Yes	1	
Heptanol (all isomers)	HTX	20	C	D/E	A	Yes	1	
Heptyl acetate	HPE	34	B	E	A	Yes	1	
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	C	B/C	A	Yes	1	
Hexanoic acid	HXO	4	D	E	A	Yes	1	
Hexanol	HXN	20	D	D	A	Yes	1	
Hexylene glycol	HXG	20	III	E	A	Yes	1	
Isophorone	IPH	18 ²	D	E	A	Yes	1	
Jet fuel: JP-4	JPF	33	I	E	A	Yes	1	
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	I	D	A	Yes	1	
Kerosene	KRS	33	I	D	A	Yes	1	
Methyl acetate	MTT	34	III	D	A	Yes	1	
Methyl alcohol	MAL	20 ²	D	C	A	Yes	1	
Methylamyl acetate	MAC	34	C	D	A	Yes	1	
Methylamyl alcohol	MAA	20	C	D	A	Yes	1	
Methyl amyl ketone	MAK	18	D	D	A	Yes	1	
Methyl tert-butyl ether	MBE	41 ²	D	C	A	Yes	1	
Methyl butyl ketone	MBK	18	D	C	A	Yes	1	
Methyl butyrate	MBU	34	C	C	A	Yes	1	
Methyl ethyl ketone	MEK	18 ²	III	C	A	Yes	1	
Methyl heptyl ketone	MHK	18	B	D	A	Yes	1	
Methyl isobutyl ketone	MIK	18 ²	D	C	A	Yes	1	
Methyl naphthalene (molten)	MNA	32	A	E	A	Yes	1	
Mineral spirits	MNS	33	I	D	A	Yes	1	
Myrcene	MRE	30	D	D	A	Yes	1	
Naphtha: Heavy	NAG	33	@I	#	A	Yes	1	
Naphtha: Petroleum	PTN	33	I	#	A	Yes	1	

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Cargo Authority Attachment

Vessel Name: **CTCO 3000**

Official #: 1254583

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Shipyard: Halimar

Hull #: 178

Cargo Identification						Conditions of Carriage	
Name	Chem Code	Compat Group No	IMO Pollution Category	Grade	Tank Group	Vapor Recovery	
						App'd (Y or N)	VCS Category
Naphtha: Solvent	NSV	33	@I	D	A	Yes	1
Naphtha: Stoddard solvent	NSS	33	@I	D	A	Yes	1
Naphtha: Varnish makers and painters (75%)	NVM	33	@I	C	A	Yes	1
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	C	D	A	Yes	1
Nonyl alcohol (all isomers)	NNS	20 ²	C	E	A	Yes	1
Nonyl phenol	NNP	21	A	E	A	Yes	1
Nonyl phenol poly(4+)ethoxylates	NPE	40	B	E	A	Yes	1
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	C	C	A	Yes	1
Octanoic acid (all isomers)	OAY	4	D	E	A	Yes	1
Octanol (all isomers)	OCX	20 ²	C	E	A	Yes	1
Oil, fuel: No. 2	OTW	33	I	D/E	A	Yes	1
Oil, fuel: No. 2-D	OTD	33	I	D	A	Yes	1
Oil, fuel: No. 4	OFR	33	I	D/E	A	Yes	1
Oil, fuel: No. 5	OFV	33	I	D/E	A	Yes	1
Oil, fuel: No. 6	OSX	33	I	E	A	Yes	1
Oil, misc: Crude	OIL	33	I	A/D	A	Yes	1
Oil, misc: Diesel	ODS	33	I	D/E	A	Yes	1
Oil, misc: Gas, high pour	OGP	33	@I	E	A	Yes	1
Oil, misc: Lubricating	OLB	33	I	E	A	Yes	1
Oil, misc: Residual	ORL	33	I	E	A	Yes	1
Oil, misc: Turbine	OTB	33	I	E	A	Yes	1
n-Pentyl propionate	PPE	34	C	D	A	Yes	1
alpha-Pinene	PIO	30	A	D	A	Yes	1
beta-Pinene	PIP	30	B	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	III	E	A	Yes	1
Polypropylene glycol	PGC	40	D	E	A	Yes	1
iso-Propyl acetate	IAC	34	III	C	A	Yes	1
n-Propyl acetate	PAT	34	D	C	A	Yes	1
iso-Propyl alcohol	IPA	20 ²	III	C	A	Yes	1
n-Propyl alcohol	PAL	20 ²	III	C	A	Yes	1
Propylbenzene (all isomers)	PBY	32	A	D	A	Yes	1
iso-Propylcyclohexane	IPX	31	C	D	A	Yes	1
Propylene glycol	PPG	20 ²	III	E	A	Yes	1
Propylene glycol methyl ether acetate	PGN	34	D	D	A	Yes	1
Propylene tetramer	PTT	30	B	D	A	Yes	1
Sulfolane	SFL	39	D	E	A	Yes	1
Tetrahydronaphthalene	THN	32	C	E	A	Yes	1
Toluene	TOL	32	C	C	A	Yes	1
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	A	E	A	Yes	1
Triethylbenzene	TEB	32	A	E	A	Yes	1
Trimethylbenzene (all isomers)	TRE	32	A	{D}	A	Yes	1
Trixylenyl phosphate	TRP	34	A	E	A	Yes	1
Undecene	UDC	30	B	D/E	A	Yes	1
1-Undecyl alcohol	UND	20	B	E	A	Yes	1
Xylenes (ortho-, meta-, para-)	XLX	32	C	D	A	Yes	1

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Cargo Authority Attachment

Vessel Name: **CTCO 3000**
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Shipyard: Halimar
Hull #: 178

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	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 20593-0001. Telephone (202) 267-1217.
Note 2	See Appendix I to 46 CFR Part 150 - exceptions to the compatibility chart.
Subchapter	The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified.
Subchapter D	Those flammable and combustible liquids listed in 46 CFR Table 30.25-1.
Subchapter O	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.
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	Flammable liquid cargoes, as defined in 46 CFR 30-10.22.
D, E	Combustible liquid cargoes, as defined in 46 CFR 30-10.15.
Note 4	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	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 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, gasoline 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 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.
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.

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Safety valve inspection report

Certificate nr 673
Date 01-14-2020

Job no. LV-5181-SO
Client Kirby

Valve data

Set pressure (cold) 125 psi
Tag, No.
Serial No. SC19388
Manufacturer Consolidated
Type / Model 1905Q

Size 6x8
Rating 150x150
Nozzle / Orifice Q
Fluid Air
Barge # CTCO 3000

Test data

Set pressure test

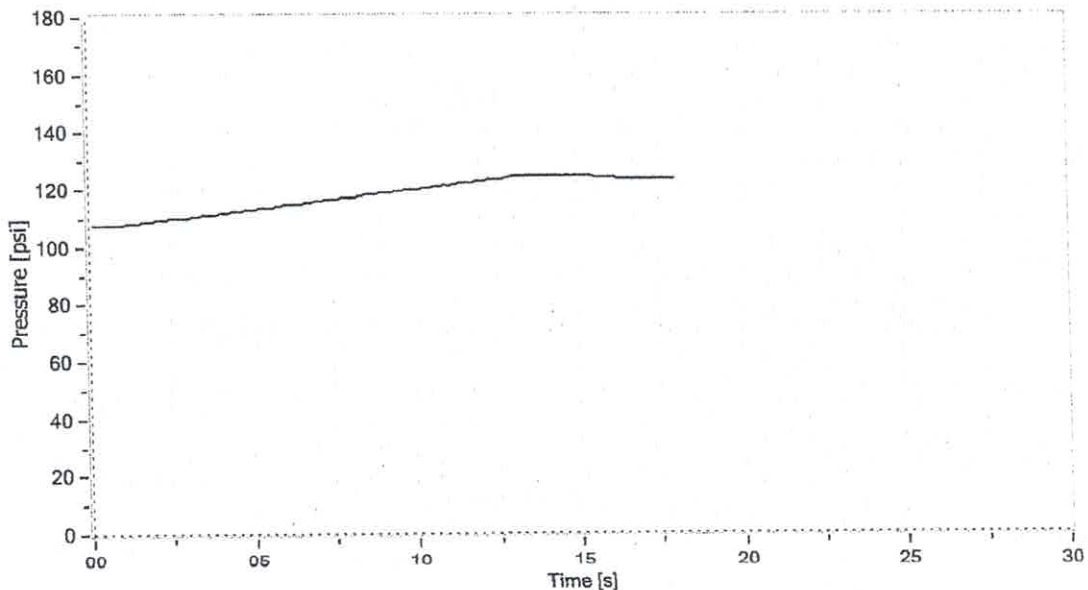
Found set pressure 125 psi
Reseat pressure (indication) 123 psi
Result Passed
Test method Air

Seat tightness test

Leakage 0 bubbles/min.
Test pressure 118 psi
Result Passed

Manual Back Pressure test

BP Pressure 30psi
BP Result Passed



Tested by
Name
Date
Signature

David Theiler

1-14-20



Inspected by

Name

Date 1-14-20

Signature *Michael Cañas*

Law Valve of Texas

16917 Market St, Channelview, TX 77530
(713)453-0413

LVT Sales Order LV-5181-SO
Barge Name CTCO 3000
Work Order# _____

Shop Order & Test Report

Customer: Kirby Inland Marine Order # JAF673121
Make ERL Size 2.5" Model # Equate
Serial # 5181-1 thru 10 Inlet 2.5 FNPT Outlet NA
Constrution: P/V Cap: N/A
Set Pressure: 1.5 psi pressure/0.5 psi vac
Tag: _____ Orifice: N/A
Work Required: Complete Overhaul Test Air
Condition Received: Need Repair

General Condition Pre-repair

Inlet	<u>Dirty</u>	Spring	<u>Good Cond.</u>
Seats	<u>Dirty</u>	Work	<u>ST</u>
Guide	<u>Dirty</u>	Repairs	<u>Lapped Seats</u>
Outlet	<u>Dirty</u>		

Parts replaced and other work: Installed viton quad rings

Final Test Report

Date 1/28/2020
Set Pressure 1.5 psi pressure/0.5 psi vac
Nozzle Ring Setting N/A
Back Pressure N/A
Tested By: [Signature] Witness/Assy By Christopher Salazar
U.S. Coast Guard Witness _____

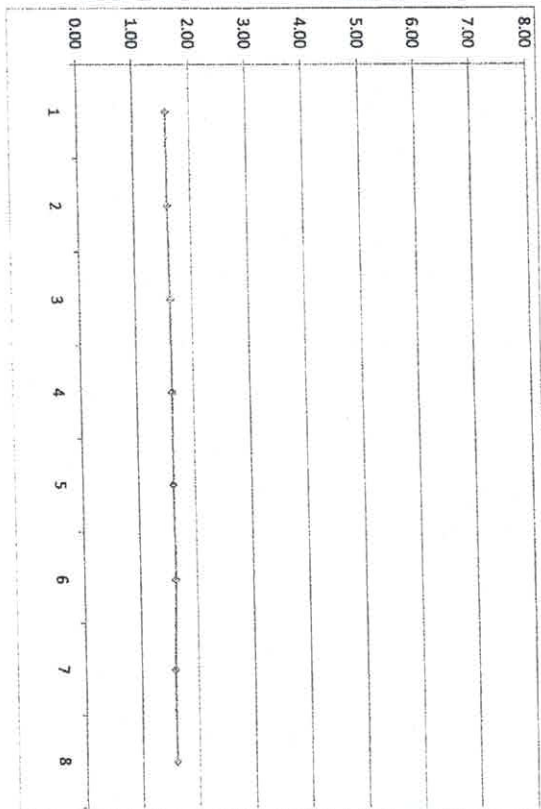
TEST RESULTS FOR ERL 6" PV VALVE

Pressure Curve

Customer	KirbyInland Marine
Barge Number	CTC 3000
Test date:	1/21/2020
Serial Number	3572K 2020

VALVE SETTINGS	PRESSURE	VACUUM
	1.5	0.5

Opening Pressure Test	
Test Number	Valve Opening Pressure (Psi)
1	1.59
2	1.58
3	1.58
4	1.59
5	1.59
Average	1.58
Delta	0.011



Airflow Pressure Test

AIRFLOW (CFM)	0	40	60	80	100	120	140	160	180	200
Pressure	1.58	1.59	1.62	1.63	1.61	1.63	1.60	1.60	NO DATA	NO DATA
Differential from Opening Point		0.01	0.03	0.04	0.03	0.04	0.01	0.02	NO DATA	NO DATA

Inspected By: **Joe Ramirez**

Joe Ramirez