

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

Certification Date: 26 Nov 2024 Expiration Date: 26 Nov 2025

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

Vessel Name	Official Number	IMO Numb		Call Sign	Service	
MER 12	1218019				Tank Ba	arge
WILIX 12	1210010	ē.			2012000000	
Hailing Port	Hull Material	Horse	oower	Propulsion		
HOUSTON, TX	Steel					
UNITED STATES						
Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
GALVESTON, TX	04May2009	19May2008	R-764	R-764		R-200.0 I-0
UNITED STATES	**************************************		l-	les		1-0
- 3				Ш		
Owner MERICHEM COMPANY		Operato MER	ICHEM CC	MPANY		
601 SAWYER ST STE 205				VISH TRAIL		
Houston, TX 77007			ton, TX 770 ED STATE			
UNITED STATES		UNII	EDSIAIE	.5		
This vessel must be manned with the	following licensed	and unlicensed	d Personne	I. Included in w	hich there m	ust be
0 Certified Lifeboatmen, 0 Certified Ta	ankermen, u HSC	Type raung, a	and o GiviD	oo Operators.		

0 Chief Engineers 0 Oilers 0 Masters 0 Licensed Mates 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 Coastwise---

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 in accordance with 46 CFR 31.10-21(a) (2). If this vessel is operated in salt water more than six (6) months in any twelve (12) month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI 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, 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/Fen	odic/Re-Inspe	GUOTI
Date	Zone	A/P/R	Signature

This certificate issued by: Woodman, L. L. WOODMAN, CDR, USCG, By direction

Officer in Charge, Marine Inspection

Marine Safety Unit Port Arthur

Inspection Zone



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

26 Nov 2024 Certification Date: 26 Nov 2025 **Expiration Date:**

Temporary Certificate of Inspection

Vessel Name: MER 12

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

30Nov2034

26Nov2024

16Sep2014

Internal Structure

30Nov2029

26Nov2024

21Oct2019

--- 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

8926

Barrels

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

570

13.6

2 3 570 570 13.6

13.6

Loading Constraints - Stability

Hull Type

Maximum Load (short tons)

Maximum Draft

Max Density

Route Description

11

(ft/in) 9ft 4in (lbs/gal) 13.6

III

1549 1630

9ft 6in

13.6

Conditions Of Carriage

Only those hazardous cargoes named in the vessel's Cargo Authority Attachment, Serial #C1-0703240 dated 24NOV2004, may be carried and then 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 greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C, are applied.

46 CFR 151.45-2(b) contains restrictions on operation box and square end barges as the lead barge of tows.

Vapor Control Authorization

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 # C2-0402994 dated 26NOV2004, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

Stability and Trim

Per 46 CFR 151.10-15(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 8.74 lbs/gal. Cargoes with higher densities, up to



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13.6 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 Exa	m	
Tank Id	Previous Last	Next	Previous	Last	Next
1	16Sep2014 26No	ov2024 30Nov2034	<u> </u>	-	5 0
2	16Sep2014 26No	ov2024 30Nov2034	- :	= :	-
3	16Sep2014 26No	ov2024 30Nov2034		<u> </u>	-
		Hydro Test			
Tank Id	Safety Valves	Previous	Last	Next	
1	-	3 = 1	-	=	
2	=	*	÷	•	
3		藩	=	t -	

--- 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

_

40-B

END



Cargo Authority Attachment

Vessel Name: MER 12

Official #:

Shipyard: Kennedy Construction

Serial #: C1-0703240

24-Nov-04

Hull #:

46 CFR 151 Tank	Group	Chara	cteris	tics													
Tank Group Information	roup Information Cargo		Cargo Identification		Camo	Tanks		Cargo Transfer		Environmental Control		Fire	Special Requirements				
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Sea	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A #1-3C	13.6	Almos	. Amb.	11	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b),	55-1(b), (c), (e), (f), (j), 56-1(a), (b), (d), (e), (f), (g), 58-1(a).	NR	No

Notes: 1. Under Environmental Control, Tanks, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo tanks.

2. Under Environmental Control, Handling Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo handling space. NA means that the vessel does not have a cargo control space, and this requirement is not applied.

3. Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.

List of Authorized Cargoes

Cargo Identificatio	n					Conditions of Carriage					
						i	Vapor Re	acovery		T	
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Calegory	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Authorized Subchapter O Cargoes											
Acetonitrile	ATN	37	0	С	111	Α	No	N/A	No	G	
Acrylic acid	ACR	42	0	D	III	Α	No	N/A	.50-70(a), .50-73, .50-81, .58-1(a)	G	
Acrylonitrile	ACN	15 ²	0	С	II	Α	No	N/A	.50-70(a), .55-1(e)	G	
Adiponitrile	ADN	37	0	E	II	Α	Yes	1	No	G	
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	III	Α	No	N/A	.50-81, .50-86	G	
Aminoethylethanolamine	AEE	8	0	E	111	Α	Yes	1	.55-1(b)	G	
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	11	Α	No	N/A	No	G	
Benzene	BNZ	32	0	С	111	Α	Yes	1	.50-60	G	
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 2	0	С	111	Α	Yes	1	.50-60	G	
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	111	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G	
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	111	Α	Yes	1	.50-60	G	
Butyl acrylate (all isomers)	BAR	14	0	D	III	A	No	N/A	.50-70(a), .50-81(a), (b)	G	
Butyl methacrylate	ВМН	14	0	D	III	Α	No	N/A	.50-70(a), .50-81(a), (b)	G	
Butyraldehyde (all isomers)	BAE	19	0	С	III	Α	Yes	1	.55-1(h)	G	
Camphor oil (light)	CPO	18	0	D	11	A	No	N/A	No	G	
Carbon tetrachloride	CBT	36	0	NA	111	Α	No	N/A	No	G	
Caustic potash solution	CPS	52	0	NA	[1]	Α	No	N/A	.50-73, .55-1(j)	G	
Caustic soda solution	CSS	52	0	NA	181	Α	No	N/A	.50-73, .55-1(j)	G	
Chemical Oil (refined, containing phenolics)	COD	21	0	E	11	Α	No	N/A	.50-73	G	
Chlorobenzene	CRB	36	0	D	111	Α	Yes	1	No	G	
Chloroform	CRF	36	0	NA	111	A	No	N/A	No	G	
Coal tar naphtha solvent	NCT	33	0	D	11	A	Yes	1	.50-73	G	
Creosote	CCW	/ 212	0	E		A	Yes	1	No	G	
Cresols (all isomers)	CRS	21	0	E	111	Α	Yes	1	No	G	
Cresylate spent caustic	CSC	5	0	NA	[1]	Α	No	N/A	.50-73, .55-1(b)	G	
Cresylic acid tar	CRX		0	E	[]]	Α	Yes	1	.55-1(f)	Ģ	
Crotonaldehyde	CTA	19 ²	0	С	11	Α	No	N/A	.55-1(h)	Ģ	
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	nı	Α	No	N/A	No	G	
Cyclohexanone	CCH	18	0	D	H	A	Yes	1	.56-1(a), (b)	G	
Cyclohexanone, Cyclohexanol mixture	CYX	182	0	E	111	A	Yes	1	.56-1 (b)	G	
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	[]]	Α	Yes	1	.50-60, .56-1(b)	G	
iso-Decyl acrylate	IAI	14	0	E	III	Α	No	N/A	.50-70(a), .50-81(a), (b), .55-1(c)	G	
Dichlorobenzene (all isomers)	DBX	36	0	E	111	Α	No	N/A	.56-1(a), (b)	G	
1,1-Dichloroethane	DCH	36	0	С	III	A	Yes	1	No	G	

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Cargo Authority Attachment

Vessel Name: MER 12

Shipyard: Kennedy Construction

Serial #: C1-0703240

Hull #:

Official #:

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Cargo Identification	Conditions of Carriage									
			1				Vapor R	acovery		T
Name	Chem	Compat Group No		Grade	Hull	Tank Groun	App'd (Y or N)	VCS Calegory	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.
2,2'-Dichloroethyl ether	DEE	41	O	D	11	A	Yes	1	,55-1(f)	G Parin
Dichloromethane	DCM	36	0	NA	III	Α	No	N/A	No	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)	DDA		0	LFG	Ш	Α	No	N/A	.55-1(b)	G
1,1-Dichloropropane	DPB	36	0	С	III	Α	No	N/A	No	G
1,2-Dichloropropane	DPP	36	0	C	111	Α	No	N/A	No	G
1,3-Dichloropropane	DPC	36	0	Ç	III	Α	No	N/A	No	G
1,3-Dichloropropene	DPU	15	0	D	11	A	No	N/A	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	II.	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	E	111	A	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	С	111	A	No	N/A	,55-1(c)	G
Diethylenetriamine	DET	72	0	E	III	A	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	111	A	No	N/A	.55-1(c)	G
Diisopropanolamine	DIP	8	0	E	111	Α	Yes	1	.55-1(c)	G
Diisopropylamine	DIA	7	0		11	A	No	N/A	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	-	E	111	A	No	N/A	.56-1(b)	G
Dimethylformamide	DMF	10			111	A	Yes	1	.55-1(e)	G
Di-n-propylamine	DNA	7	0	C	<u>:</u> '''	A	No	N/A	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	- 6	E	<u>:</u> -	- A	No	N/A	.56-1(b)	G
Ethanolamine	MEA	8		E	tii	A	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0		111	A	No	N/A	.50-70(a), .50-81(a), (b)	G
	EAN	7		Ā	11	A			.55-1(b)	G
Ethylamine solution (72% or less)			0		-		No.	N/A	.55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	111	A	No	N/A	,55-1(b)	G
N-Ethylcyclohexylamine			0	D E	[]]	A	Yes	1	No No	G
Ethylene cyanohydrin	ETC	20 7 ²	0		[1]	A	Yes	1	.55-1(c)	G
Ethylenediamine	EDA		0	D	[1]	A	Yes	1	No No	
Ethylene dichloride	EDC	362	0	C	[1]	A	Yes	1		G
Ethylene glycol hexyl ether	EGH	40	0	E	[]]	A	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	- 111	Α	Yes	11	No	G
Ethylene glycol propyl ether	EGP	40	0	E	111	Α	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	E	111	A	No	N/A	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	111	Α	No	N/A	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	192	0	E	111	A	Yes	11	No	G
Formaldehyde solution (37% to 50%)	FMS	19²	0	D/E	1(1	Α	Yes	1	.55-1(h)	G
Furfural	FFA	19	0	D	111	A	Yes	1	.55-1(h)	G
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	111	Α	No	N/A	No	G
Hexamethylenediamine solution	НМС	7	0	E	111	Α	Yes	1	.55-1(c)	G
Hydrocarbon 5-9	HFN		0	С	111	Α	Yes	1	,50-70(a), .50-81(a), (b)	G
Isoprene	IPR	30	0	Α	1[]	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Isoprene, Pentadiene mixture	IPN		0	В	111	Α	No	N/A	.50-70(a), .55-1(c)	G
Mesityl oxide	MSO	182	0	D	111	Α	Yes	1	No	G
Methyl acrylate	MAM	14	0	C	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Methylcyclopentadiene dimer	MCK	30	0	С	111	Α	Yes	1	No	G
2-Methyl-5-ethylpyridine	MEP	9	0	E	111	Α	Yes	1	.55-1(e)	G
Methyl methacrylate	MMM	1 14	0	C	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
2-Methylpyridine	MPR	9	0	D		Α	No	N/A	.55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D]	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	72	0	D	111	Α	Yes	1	.55-1(c)	G
1- or 2-Nitropropane	NPM	42	0	D	111	Α	Yes	1	.50-81	G
1,3-Pentadiene	PDE	30	0	Α	}	Α	No	N/A	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	111	Α	No	N/A	No	G

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Vessel Name: MER 12

Shipyard: Kennedy

Construction

C1-0703240

24-Nov-04

Official #:

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Hull #:

Cargo Identificatio	n					Conditions of Carriage						
						1		Recovery				
Name Polyethylene polyamines	Chem Code PEB	Compat Group No 7 2	Sub Chaoter O	Grade E	Hull Type	Tank Group A	(Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of .55-1(e)	Insp. Period G		
iso-Propanolamine	MPA	8	0	E	III	Α	Yes	1	.55-1(c)	G		
iso-Propylamine	IPP	7	0	Α	11	Α	No	N/A	.55-1(c)	G		
Pyridine	PRD	9	0	C	III	Α	Yes	1	.55-1(e)	G		
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxi	de) SAP		0		111	Α	No	N/A	.50-73, .55-1(j)	G		
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	111	A	No	N/A	.50-73	G		
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	III	A	No	N/A	.50-73, .56-1(a), (b)	G		
Sodium suifide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2		NA	III	A	Yes	1	.50-73, .55-1(b)	G		
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1.2	0	NA	111	Α	No	N/A	.50-73, .55-1(b)	G		
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	II	Α	No	N/A	.50-73, .55-1(b)	G		
Sodium thiocyanate solution (56% or less)	STS	0 1,2	0	NA	111	Α	No	N/A	.58-1(a)	G		
Styrene (crude)	STX		0	D	111	Α	No	N/A	No	G		
Styrene monomer	STY	30	0	D	111	A	No	N/A	.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	TTP	7	0	E	111	A	Yes	1	.55-1(c)	G		
Tetrahydrofuran	THF	41	0	C	111	A	Yes	1	.50-70(b)	G		
1,2,4-Trichlorobenzene	TCB	36	0	E		Α	Yes	1	No	G		
1,1,2-Trichloroethane	TCM	36	0	NA	III	— A	Yes		.50-73, .56-1(a)			
Trichloroethylene	TCL	36 2	0	NA	[1]	A	Yes	<u>_</u>	No	G		
1,2,3-Trichloropropane	TCN	36		E	11		No	N/A	.50-73, .56-1(a)	G		
Triethanolamine	TEA	82		E					.55-1(b)			
Triethylamine	TEN	7				A	Yes	1	.55-1(a)	G		
Triethylenetetramine	TET	72	0		! <u>!</u> 	A	No	N/A	.55-1(b)	G		
Urea, Ammonium nitrate solution (containing more than 2% NH3)							Yes	1	.56-1(b)	G		
	UAS	6	0	NA		A	No	N/A	.50-70(a), .50-81(a), (b)			
Vinyl acetate Vinyl neodecanate	VAM	13	0	C		A	No	N/A	.50-70(a), .50-81(a), (b)	G		
		13	U		111	A	No	N/A	.50-70(1), .50-01(1), (0)			
Subchapter D Cargoes Authorized for Vapor Contr Acetone	ACT	18 ²		С								
	ACP					A .	Yes	1				
Acetophenone	APU	18		E		A	Yes	1				
Alcohol(C12-C16) poly(1-6)ethoxylates		20	D	E		A	Yes	1				
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		A	Yes	1				
Amyl acetate (all isomers)	AEC	34		D		Α	Yes	1				
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1				
Benzyl alcohol Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and	BAL	21	D	E		A	Yes	1				
their borate esters) Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1				
Butyl alcohol (iso-)	IAL	202	D	D		A	Yes	1				
Butyl alcohol (n-)	BAN		D	D	· · · · · · · · · · · · · · · · · · ·	A	Yes					
Butyl alcohol (sec-)	BAS		D	C		A	Yes	1				
Butyl alcohol (tert-)	BAT		D	C		A	Yes	1				
Butyl benzyl phthalate	BPH	34	D	E			Yes	1				
Butyl toluene	BUE	32	D	D		A		1				
Caprolactam solutions	CLS	22					Yes					
Cyclohexane	CHX	31	D	E		A	Yes	1				
Cyclohexanol	CHX		D			A	Yes	1				
		20	D	E		Α	Yes	1				
p-Cymene iso Deceldebude	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				

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Serial #: C1-0703240 Dated: 24-Nov-04

Certificate of Inspection

Cargo Authority Attachment

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Vessel Name: MER 12

Shipyard: Kennedy Construction

Hull #:

Official #:

Cargo Identification	n					Conditions of Carriage						
								Recovery				
Name	Chem	Compat Group No	Sub	Grade	Hull	Tank Group	App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'is of	Insp.		
Decene	DCE	30	D	D		Α	Yes	1	TO COMMONING WING OF	,,,		
Decyl alcohol (all isomers)	DAX	20 ²	D	E		Α	Yes	1				
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		Α	Yes	1				
Diacetone alcohol	DAA	202	D	D		Α	Yes	1				
ortho-Dibutyl phthalate	DPA	34	D	Ε		Α	Yes	1				
Diethylbenzene	DEB	32	D	D		Α	Yes	1	A			
Diethylene glycol	DEG	402	D	E		Α	Yes	1				
Diisobutylene	DBL	30	D	С		Α	Yes	1		*****		
Diisobutyl ketone	DIK	18	D	D		Α	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		A	Yes	1				
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		A	Yes	1	w			
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1				
Dipropylene glycol	DPG	40	D	E		A	Yes	1				
Distillates: Flashed feed stocks	DFF	33	D	E		A	Yes	1				
Distillates: Straight run	DSR	33	D	E		A	Yes	1				
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1				
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1				
2-Ethoxyethyl acetate	EEA	34	D	D		Α Α	Yes	1				
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1				
Ethyl acetate	ETA	34		c		A	Yes	1				
Ethyl acetoacetate	EAA	34	D	E		Α	Yes	1				
Ethyl alcohol	EAL	202	D	-c	~~	Α	Yes	1		~		
Ethylbenzene	ETB	32	D			A	Yes	1				
Ethyl butanol	EBT	20	D	D		A	Yes	1				
Ethyl tert-butyl ether	EBE	41	D	C			Yes	1				
Ethyl butyrate	EBR	34	D	D		A	Yes	<u>i</u>				
Ethyl cyclohexane	ECY	31	D	D		A	Yes	1				
Ethylene glycol	EGL	202	D	E			Yes	1				
Ethylene glycol butyl ether acetate	EMA	34	D	E			Yes	1				
	EGY	34	D	E		A	Yes	1				
Ethylene glycol diacetate Ethylene glycol phenyl ether	EPE	40	D	E		A	Yes	1				
Ethyl-3-ethoxypropionate	EEP	34	D	D			Yes	1				
2-Ethylhexanol	EHX		D	E		~~ ~ ~~~	Yes					
	EPR	20 34		C		Α		1				
Ethyl propionate						A	Yes					
Ethyl toluene	ETE	32	D	D		A	Yes	1				
Formamide Surface Inches	FAM	10	D	E		A	Yes	1				
Furfuryl alcohol	FAL	202	D	E		A	Yes	1				
Gasoline blending stocks: Alkylates	GAK	33	<u>D</u>	A/C		<u>A</u>	Yes	1				
Gasoline blending stocks: Reformates	GRF	33	<u>D</u>	A/C		A	Yes	11				
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	C		Α	Yes	1				
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		A	Yes	1				
Gasolines: Casinghead (natural)	GCS	33	D	A/C		A	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	202	D	E		Α	Yes	1				

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24-Nov-04

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MER 12

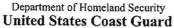
Official #:

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Construction

Shipyard: Kennedy

Cargo Identificati	Conditions of Carriage									
		T :		l ;				Recovery		
Name	Chem	Compat	Sub	Grade	Hull	Tank	App'd	vcs	Special Requirements in 46 CFR	Insp.
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	Group No	D	C	Type	Gmun	(Y or N) Yes	Category 1	151 General and Mat'ls of	Perind
Heptanoic acid	HEP	4	D	E	·	A	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		A	Yes	1		
Heptyl acetate	HPE	34	D	Ε		A	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	312	D	B/C		A	Yes	1		
Hexanoic acid	HXO	4	D	Ē		Α	Yes	1		
Hexanol	HXN	20	D	D		Α	Yes	1		
Hexylene glycol	HXG	20	D	E		Α	Yes	1		
Isophorone	IPH	182	D	E		A	Yes	1		
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		A	Yes	1		-
Kerosene	KRS	33	D	D		A	Yes	1		
Methyl acetate	MTT	34	D	D		Α	Yes	1		
Methyl alcohol	MAL	20 ²	D	С		Α	Yes	1		····
Methylamyl acetate	MAC	34	D	D		Α	Yes	1		
Methylamyl alcohol	MAA	20	D	D		Α	Yes	1		
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1		
Methyl tert-bulyl ether	MBE	412	D	С		Α	Yes	1		
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1		
Methyl butyrate	MBU	34	D	С		Α	Yes	1		
Methyl ethyl ketone	MEK	182	D	С		Α	Yes	1		
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1		
Methyl isobutyl ketone	MIK	18 ²	D	С		Α	Yes	1		
Methyl naphthalene (molten)	MNA	32	D	E		Α	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	#	~~ ~~~~	Α	Yes	1		
Naphtha: Solvent	NSV	33	D	D		Α	Yes	1		
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	1		
Naphtha: Varnish 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		
Nonyl alcohol (all isomers)	NNS	20 ²	D	Ε	-	Α	Yes	1		
Nonyl phenol	NNP	21	D	Ε		Α	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	Ε		Α	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	C		Α	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes	1		
Octanol (all isomers)	OCX	202	. D	E		Α	Yes	1		
Oil, fuel: No. 2	OTW	33	D	D/E		A	Yes	1		
Oil, fuel: No. 2-D	OTD	33	D	D		A	Yes	1		
Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 5	OFV	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 6	OSX	33	D	E		A	Yes	1		
Oil, misc: Crude	OIL	33	D	C/D		A	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		A	Yes	1		
Oil, misc: Lubricating	OLB	33	D	E		A	Yes	1		
Oil, misc: Residual	ORL	33	D	E		A	Yes	1		
Oil, misc: Turbine	ОТВ	33	D	_E		A	Yes			
alpha-Pinene	PIO	30	_ <u>D</u>	D		A	Yes	1		
beta-Pinene	PIP	30	D	D		Α	Yes	1		





Cargo Authority Attachment

Vessel Name: MER 12

Official #:

Shipyard: Kennedy

Construction

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Hull #:

Cargo Identifica	ation					Conditions of Carriage						
			1				Vapor l	Recovery		T		
Name Poly(2-8)alkylene giycol monoalkyl(C1-C6) ether	Chem Code PAG	Group No 40	Sub Chanter D	Grade E	Hull Type	Tank Group A	App'd (Y or N) Yes	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E	****	A	Yes	1				
Polybutene	PLB	30	D	Е		Α	Yes	1				
Polypropylene glycol	PGC	40	D	Ε		A	Yes	1				
iso-Propyl acetate	IAC	34	D	С		A	Yes	1				
n-Propyl acetate	PAT	34	D	С		A	Yes	1				
iso-Propyl alcohol	IPA	202	D	C		Α	Yes	1				
n-Propyl alcohol	PAL	20 ²	D	С		Α	Yes	1				
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1				
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	1				
Propylene glycol	PPG	202	D	E		Α	Yes	1				
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1				
Propylene tetramer	PTT	30	D	D		Α	Yes	1				
Sulfolane	SFL	39	D	E		A	Yes	1				
Tetraethylene glycol	TTG	40	D	Ē		A	Yes	1	77 - 10077 Facilities 11-1011 - 10-101 - 10-101 - 10-101			
Tetrahydronaphthalene	THN	32	D	E		A	Yes	1				
Toluene	TOL	32	D	С		Α	Yes	1				
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		A	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		wi.		
Trixylenyl phosphate	TRP	34	D	E		A	Yes	1				
Undecene	UDC	30	D	D/E		A	Yes	1				
1-Undecył alcohol	UND	20	D	E		Α	Yes	1				
Xylenes (ortho-, meta-, para-)	XLX	32	D	D	***************************************	Α	Yes	1				



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Dated:

24-Nov-04

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MER 12

Official #

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Shipyard: Kennedy Const

Explanation of terms & symbols used in the Table:

Cargo Identification

Chem Code

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. 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.

Note 1

Note 2

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.

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

Those cargoes fisted 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 Flammable liquid carnoes, as defined in 46 CFR 30-10 22

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

The flammability/combusitibility 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.

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 Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone (2002) 372-1425

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

Hull Type

NA

Grade

A, B, C

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

Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

Tank Group Vapor Recover 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 Recoven 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: Category 1

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

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

Category 7 none

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



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

LVT Sales Order	LV-4544-SO
Barge Name	MER 12
Work Order #	

Shop Order & Test Report

	1			•	
Customer:	Kirby Inland Marine	!	Order#		:
Make	Tank Tech	Size	6"	Model #	KSPA/KSPV6
Serial #	KLPH -A3175115	Inlet	6" 150	Outlet	NA
Constrution:	P/V			Cap:	N/A
Set Pressure:	1.5 psi pressure/ 0.5 ps	si vacuum			
Tag:			Orifice:	N/A	
Work Required	d: Complete	e Overhaul	-	Test A	Air
Condition Rece	eived: Nee	d Repair			
General C	ondition Pre-repa	nir			
Inlet	Dirty		Spring		
Seats	Dirty		Work	ST	
Guide Outlet	Dirty Dirty	_	Repairs	Lapped Seats	Replaced gaskets
Parts replaced	and other work:	Installed	teflon encaps	ulated O-ring	
	Fi	nal T	est R	eport	
Date	10/17/2019				
et Pressure	1,5 ps Plessue	=/0.50	SI VACU	ung	
lozzle Ring Set	ting N/A		_		
ested By:	drando 4 Ranx	/	_	Witness/Assy By	: Bally)
IS Coast Guar	d Witness		9		