

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

02 Jun 2022 Certification Date: 02 Jun 2023

Expiration Date:

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. Service IMO Number Official Number Vessel Name Tank Barge 1236588 HTCO 3085 Hailing Port Propulsion Hull Material Horsepower HOUSTON, TX Steel UNITED STATES Place Built Gross Tons Net Tons DWT Length Keel Laid Date Delivery Date R-297.5 R-1619 R-1619 ASHLAND CITY, TN 03Feb2012 04Jan2012 1-0 UNITED STATES Owner KIRBY INLAND MARINE LP HIGMAN BARGE LINES INC 18350 Market Street 55 WAUGH DR STE 1000 Channelview, TX 77530 HOUSTON, TX 77007 UNITED STATES 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 Licensed Mates 0 Chief Engineers 0 Masters 0 First Class Pilots 0 First Assistant Engineers O Chief Mates O Radio Officers 0 Second Assistant Engineers 0 Second Mates 0 Able Seamen 0 Third Assistant Engineers 0 Third Mates 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, coastwise, 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 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 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 Freeport, TX, UNITED STATES, the Officer in Charge, Marine Inspection, 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 J. A. COLEMAN COR, USCG, BY DIRECTION Zone A/P/R Signature

Officer in Charge, Marine Inspection

Inspection Zone

Houston-Galveston

Date



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

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Temporary Certificate of Inspection

Vessel Name: HTCO 3085

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 Sector Houston-Galveston.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

30Apr2027

03Apr2017

03Feb2012

Internal Structure

30Apr2027

02Jun2022

03Apr2017

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

Authorization:

FLAMMABLE / COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

Total Capacity

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

13.57

29500

3 P/S

Barrels

851

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	925	13.57
2 P/S	939	13.57

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	4697	10ft 0in	13.57	R, LBS
Ш	5567	11ft 9in	13.57	R. LBS

Conditions Of Carriage

Only those cargoes named in C1argo Authority Attachment (CAA), Serial # C1-1103918, dated 09NOV11, may be carried, and then only in the tanks indicated. 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.

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 numbers from the "COMPAT GROUP NO" column listed in the vessel's CAA.

The maximum design density of cargo which may be filled to the tank top is 8.74 lbs/gal.

Per 46 CFR 151.10-15(c)(2) the max tank weights reflect uniform (within 5%) loading at the deepest draft allowed. When carrying Subchapter O cargoes at shallower drafts, the barge(s) should always be loaded uniformly.



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Vapor Control Authorization

In accordance with 46 CFR Part 39, excluding part 39.4000, this vessel's vapor collection system (VCS) has been inspected to the plans approved by MSC Letter # C1-1801701 dated May 2018 and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column. The VCS system has been approved with a pressure side of 3 psig P/V valve with Coast Guard Approval 167.017/167/4. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 3.50 psig.

--- Inspection Status ---

Fuel Tanks

	Internal Exam	ninations -				
Tank ID	Previous	Last	Next			
Machinery deck		03Feb2012	-			
Aft slop tank		03Feb2012	.#.i			
Fwd slop tank	-	03Feb2012	4			
Cargo Tanks						
	Internal Exam	Į		External Exar	m	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	03Feb2012	03Apr2017	03Apr2027	03Apr2017	02Jun2022	30Apr2027
2 P/S	03Feb2012	03Apr2017	03Apr2027	03Apr2017	02Jun2022	30Apr2027
3 P/S	03Feb2012	03Apr2017	03Apr2027	03Apr2017	02Jun2022	30Apr2027
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
1 P/S	=		:	03Feb2012	= -	
2 P/S	₩		= 0	03Feb2012	n <u>u</u>	
3 P/S	-		2	03Feb2012	-	

--- 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





Serial #: Dated: C1-1103918

ed: 09-Nov-11

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3085 Official #: 1236588

Shipyard: Trinity Marine

Hull #: 4862

46	CFR 151 Tank	Group (Chara	cteris	tics				-	-					-	1002		
Tank Group Information		Cargo Identification				Cargo	Tanks			Cargo Transfer		Environmental Control		Fire	Special Requirements		T	Ī
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		Temp
A #	#1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	П	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50- 81(b),	55-1(c), (e), (h), 56- 1(b), (c), (d), (e), (f), (g),	NR	No

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

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			Condi	tions of Carriage						
							Vapor Re	ecovery		
Name	Chem	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	С	111	Α	Yes	3	No	G
Acrylonitrile	ACN	15 ²	0	С	- 11	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	E	Н	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	Ш	Α	No	N/A	.50-81, .50-86	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	П	Α	No	N/A	No	G
Benzene	BNZ	32	0	С	Ш	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 2	0	C	111	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	111	А	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	Ш	Α	Yes	1	.50-60	G
Butyl acrylate (all isomers)	BAR	14	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	вмн	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	111	Α	Yes	1	.55-1(h)	G
Camphor oil (light)	СРО	18	0	D	11	Α	No	N/A	No No	G
Carbon tetrachloride	CBT	36	0	NA	Ш	Α	No	N/A	No	G
Chemical Oil (refined, containing phenolics)	COD	21	0	Е	11	Α	No	N/A	.50-73	G
Chlorobenzene	CRB	36	0	D	Ш	Α	Yes	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	1	.50-73	G
Creosote	CCV	V 21 ²	0	Е	111	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	Ε	111	Α	Yes	1	No	G
Crotonaldehyde	СТА	19 ²	0	С	Ш	Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	3	0	С	Ш	А	No	N/A	/ No	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	Ε	Ш	Α	Yes	1	.56-1 (b)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	Α	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
1,1-Dichloroethane	DCH	1 36	0	С	Ш	Α	Yes	1	No	G
Dichloromethane	DCN	A 36	0	NA	111	Α	Yes	5	No	G
1,1-Dichloropropane	DPE	36	0	С	111	Α	Yes	3	No	G
1,2-Dichloropropane	DPF	36	0	С	III	Α	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	111	Α	Yes	3	No	G
1,3-Dichloropropene	DPL	J 15	0	D	n	Α	Yes	s 4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	K 15	0	С	II	Α	Yes	3 1	No	G



Serial #: C1-1103918

09-Nov-11

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3085 Official #: 1236588

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Shipyard: Trinity Marine

Cargo Identifica	tion					Conditions of Carriage						
						Vapor Recovery						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	(Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Diethanolamine	DEA	8	0	E	111	Α	Yes	1	.55-1(c)	G		
Diethylamine	DEN	7	0	С	Ш	Α	Yes	3	.55-1(c)	G		
Diethylenetriamine	DET	7 2	0	E	111	Α	Yes	1	.55-1(c)	G		
Diisobutylamine	DBU	7	0	D	111	Α	Yes	3	.55-1(c)	G		
Diisopropanolamine	DIP	8	0	E	Ш	Α	Yes	1	.55-1(c)	G		
Diisopropylamine	DIA	7	0	С	П	Α	Yes	3	.55-1(c)	G		
N,N-Dimethylacetamide	DAC	10	0	Ε	III	Α	Yes	3	.56-1(b)	G		
Dimethylethanolamine	DMB	8	0	D	111	Α	Yes	1	.56-1(b), (c)	G		
Dimethylformamide	DMF	10	0	D	111	Α	Yes	1	.55-1(e)	G		
Di-n-propylamine	DNA	7	0	С	- 11	Α	Yes	3	.55-1(c)	G		
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	Ш	Α	No	N/A	.56-1(b)	G		
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	II	Α	No	N/A	No	G		
EE Glycol Ether Mixture	EEG	40	0	D	111	Α	No	N/A	No	G		
Ethanolamine	MEA	8	0	E	111	Α	Yes	1	.55-1(c)	G		
Ethyl acrylate	EAC	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Ethylene cyanohydrin	ETC	20	0	Е	111	Α	Yes	1	No	G		
Ethylenediamine	EDA	7 2	0	D	III	Α	Yes	1	.55-1(c)	G		
Ethylene dichloride	EDC	36 2	0	C	III	Α	Yes	1	No	G		
Ethylene glycol hexyl ether	EGH	40	0	E	III	Α	No	N/A	No	G		
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	A	Yes	1	No	G		
Ethylene glycol propyl ether	EGP	40	0	E	111	Α	Yes	1	No	G		
2-Ethylhexyl acrylate	EAI	14	0	E		A	Yes	2	.50-70(a), .50-81(a), (b)	G		
Ethyl methacrylate	ETM	14	0	D/E	111	A	Yes	2	.50-70(a)	G		
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	111	A	Yes	1	No	G		
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	111	Α	Yes	1	.55-1(h)	G		
Furfural	FFA	19	0	D	III	Α	Yes	1	.55-1(h)	G		
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	111	A	No	N/A	No	G		
Hexamethylenediamine solution	HMC		0	E	111	A	Yes	1	.55-1(c)	G		
7000- 2700 700 CC NV	HMI	7	0	С	11	Α	Yes	1	.56-1(b), (c)	G		
Hexamethyleneimine	HFN		0	C	111	Α.	Yes	1	.50-70(a), .50-81(a), (b)	G		
Hydrocarbon 5-9	IPR	30	0	A	- 111	Α	Yes	7	.50-70(a), .50-81(a), (b)	G		
Isoprene	IPN		0	В	111	A	No	N/A	.50-70(a), .55-1(c)	G		
Isoprene, Pentadiene mixture	MSO	18 ²	0	D	111	A	Yes		No	G		
Mesityl oxide	MAM		0	C	111	A	Yes		.50-70(a), .50-81(a), (b)	G		
Methyl acrylate	MCK		0	С	 III	A	Yes		No	G		
Methylcyclopentadiene dimer	MDE			E	111	A	Yes		.56-1(b), (c)	G		
Methyl diethanolamine			0	E	111	A	Yes		.55-1(e)	G		
2-Methyl-5-ethylpyridine	MEP				-				.50-70(a), .50-81(a), (b)	G		
Methyl methacrylate	MMN		0	C D		A A	Yes		.55-1(c)	G		
2-Methylpyridine	MPR			D		A	Yes		.50-70(a), .50-81(a), (b)	G		
alpha-Methylstyrene	MSR		0		111				.55-1(c)	G		
Morpholine	MPL			D	111	Α	Yes	N/A		G		
Nitroethane	NTE		0	D	11	A	No		.50-81	G		
1- or 2-Nitropropane	NPM		0	D	III	A	Yes		.50-70(a), .50-81	G		
1,3-Pentadiene	PDE		0	Α	111	A	Yes			G		
Perchloroethylene	PER		0	NA	111		No	N/A	.55-1(e)	G		
Polyethylene polyamines	PEB			E	111		Yes		.55-1(c)	G		
iso-Propanolamine	MPA			E		A	Yes		.56-1(b), (c)	G		
Propanolamine (iso-, n-)	PAX	. 8	0	E	111	Α	Yes	1	.50-1(0), (0)			



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Cargo Authority Attachment

Vessel Name: HTCO 3085 Official #: 1236588

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Shipyard: Trinity Marine

Cargo Identification	1					Conditions of Carriage						
						Vapor Recovery						
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 Peri		
iso-Propylamine	IPP	7	0	Α	11	Α	Yes	5	.55-1(c)	G		
Pyridine	PRD	9	0	С	Ш	Α	Yes	1	.55-1(e)	G		
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	111	Α	No	N/A	.50-73	G		
Styrene (crude)	STX		0	D	Ш	Α	Yes	2	No	G		
Styrene monomer	STY	30	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	111	Α	No	N/A	No	G		
Tetraethylenepentamine	TTP	7	0	Е	111	Α	Yes	1	.55-1(c)	G		
Tetrahydrofuran	THF	41	0	С	111	Α	Yes	1	.50-70(b)	G		
1,2,4-Trichlorobenzene	TCB	36	0	E	111	Α	Yes	1	No	G		
Trichloroethylene	TCL	36 ²	0	NA	111	Α	Yes	1	No	G		
Triethylamine	TEN	7	0	С	11	Α	Yes	3	.55-1(e)	G		
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	Α	No	N/A	.56-1(b)	G		
Vinyl acetate	VAM	13	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Vinyl neodecanate	VND	13	0	E	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G		
Subchapter D Cargoes Authorized for Vapor Contro	ol			-	-							
Acetone	ACT	18 ²	D	С		Α	Yes	1				
Acetophenone	ACP	18	D	E		A	Yes	1				
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E	PV-000-19 - 000-11	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	D		A	Yes	1				
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		A	Yes	1				
Benzyl alcohol	BAL	21	D	E		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	D	D		Α	Yes	1				
Butyl alcohol (iso-)	IAL	20 2	D	D		Α	Yes	1				
Butyl alcohol (n-)	BAN	20 ²	D	D		Α	Yes	1				
Butyl alcohol (sec-)	BAS	20 ²	D	С		Α	Yes	1				
Butyl alcohol (tert-)	BAT		D	С		Α	Yes	1				
Butyl benzyl phthalate	BPH	34	D	E		A	Yes	1	A SALAN A SALA			
Butyl toluene	BUE	32	D	D		A	Yes	1				
Caprolactam solutions	CLS	22	D	Ε		Α	Yes	1				
Cyclohexane	CHX	31	D	С		A	Yes	1				
Cyclohexanol	CHN	20	D	E		A	Yes	1				
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2	The same and the same of the same and the sa			
p-Cymene	CMP	32	D	D		A	Yes	1	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, WHEN THE PERSON NAMED IN COLUMN TWO IS NAMED IN THE PERSON NAMED IN T			
iso-Decaldehyde	IDA	19	D	E		Α	Yes	1				
n-Decaldehyde	DAL	19	D	E		A	Yes	1				
Decene	DCE	30	D	D		Α	Yes	1		40000		
Decyl alcohol (all isomers)	DAX	20 ²	D	E		A	Yes	1				
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		Α	Yes	1				
Diacetone alcohol	DAA	20 ²	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 ²	D	E -		A	Yes	1				
AND	DBL	30	D	С		Α	Yes	1				
Diisobutylene Diisobutyl ketone	DIK	18				A	Yes	1				



Serial #: C1-1103918 Dated: 09-Nov-11

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Cargo Authority Attachment

Vessel Name: HTCO 3085 Official #: 1236588

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Shipyard: Trinity Marine

Cargo Identification	n					Conditions of Carriage						
						Vapor Recovery						
Name	Chem	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. Perio		
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		Α	Yes	1				
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	Е		Α	Yes	1				
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1				
Oodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		Α	Yes	1				
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1				
Ethoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1				
Ethyl acetate	ETA	34		C		A	Yes	1				
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1				
Ethyl alcohol	EAL	20 2	D	C		Α	Yes	1				
Ethylbenzene	ETB	32	D	C		Α	Yes	1				
Ethyl butanol	EBT	20	D	D		Α	Yes	1	and the contract of the contra			
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 2	D	E		A	Yes	1				
Ethylene glycol butyl ether acetate	EMA	34		E		A	Yes	1				
Ethylene glycol diacetate	EGY	34	D	E		<u></u>	Yes	i				
	EPE	40	D	<u></u> Е		Α	Yes	1				
Ethylene glycol phenyl ether	EEP	34	D	D	w. 1	A	Yes	1				
Ethyl-3-ethoxypropionate				E		A	Yes	1				
2-Ethylhexanol	EHX	20	D									
Ethyl propionate	EPR	34	D	С		A	Yes	1				
Ethyl toluene	ETE	32	D	D		- A	Yes					
Formamide	FAM	10	D	_ <u>E</u>		A	Yes	1				
Furfuryl alcohol	FAL	20 2	D	E		A	Yes	1		-		
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α .	Yes	1				
Gasoline blending stocks: Reformates	GRF	33	D	A/C		A	Yes	1				
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		Α	Yes	1				
Gasolines: Casinghead (natural)	GCS	33	D	A/C		A	Yes	1				
Gasolines: Polymer	GPL	33	D	A/C		A	Yes	1				
Gasolines: Straight run	GSR	33	D	A/C		A	Yes	1				
Glycerine	GCR	20 2	D	E		A	Yes	1				
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1				
Heptanoic acid	HEP	4	D	E	(6166) 14	Α	Yes	1				
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1				
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2				
Heptyl acetate	HPE	34	D	E		Α	Yes	1				
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 2	D	B/C		Α	Yes	1				



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3085 Official #: 1236588

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Shipyard: Trinity Marine

Serial #: C1-1103918

Cargo Identi	fication					Conditions of Carriage							
						Vapor Recovery							
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. Perio			
Hexanol	HXN	20	D	D		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 2	D	E		Α	Yes	1					
Jet fuel: JP-4	JPF	33	D	Ε		Α	Yes	1					
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes	1					
Kerosene	KRS	33	D	D		Α	Yes	1					
Methyl acetate	MTT	34	D	D		Α	Yes	1					
Methyl alcohol	MAL	20 ²	D	С	- 10	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		A	Yes	1					
Methyl tert-butyl ether	MBE	41 2	D	C		Α	Yes	1		CONTRACTOR OF CONTRACTOR			
Methyl butyl ketone	MBK	18	D	С		A	Yes	1					
Methyl butyrate	MBU	34	D	C		A	Yes	1					
Methyl ethyl ketone	MEK	18 2	D	C		A	Yes	1					
Methyl heptyl ketone	MHK	18	D	D			Yes						
		18 ²				Α							
Methyl could be a could be	MIK	4 (4 to 14 to 15 to	D .			A	Yes	1					
Methyl naphthalene (molten)	MNA	32	D	E		A	Yes	1					
Mineral spirits	MNS	33	D	D		A	Yes						
Myrcene	MRE	30	D	D		Α .	Yes	1	The Committee of the Co				
Naphtha: Heavy	NAG	33	D	#		A	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					
Nonene (all isomers)	NON	30	D	D		Α	Yes	2					
Nonyl alcohol (all isomers)	NNS	20 2	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	1					
Octanoic acid (all isomers)	OAY	4	D	Ε		Α	Yes	1					
Octanol (all isomers)	OCX	20 ²	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	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	Ε		Α	Yes	1					
Oil, misc: Crude	OIL	33	D	C/D		Α	Yes	1					
Oil, misc: Diesel	ODS		D	D/E		Α	Yes	1					
Oil, misc. Gas, high pour	OGP		D	E		A	Yes	1	The second secon				
present on the second of the s	OLB	33	D	E		Α	Yes	1					
Oil, misc: Lubricating	ORL	33	D	E		A	Yes	1					
Oil, misc: Residual	OTB		D	E		A	Yes	1					
Oil, misc: Turbine	PTY	31	D	A		A	Yes	5					
Pentane (all isomers) Pentene (all isomers)	PTX	30	D	^		Α Α	Yes	5					



Serial #: C1-1103918

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3085 Official #: 1236588

Page 6 of 7

Shipyard: Trinity Marine

Cargo Identifica	tion		2			Conditions of Carriage						
							Vapor F	Recovery				
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		
n-Pentyl propionate	PPE	34	D	D		Α	Yes	1				
alpha-Pinene	PIO	30	D	D		Α	Yes	1				
beta-Pinene	PIP	30	D	D		Α	Yes	1				
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		Α	Yes	1				
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		Α	Yes	1				
Polybutene	PLB	30	D	E		Α	Yes	. 1				
Polypropylene glycol	PGC	40	D	E		Α	Yes	1	CONTROL OF THE STATE OF THE STA			
iso-Propyl acetate	IAC	34	D	С		Α	Yes	1				
n-Propyl acetate	PAT	34	D	С		Α	Yes	1				
iso-Propyl alcohol	IPA	20 ²	D	С		Α	Yes	1	NATIONAL CONTRACTOR OF THE STATE OF THE STAT			
n-Propyl alcohol	PAL	20 ²	D	С		Α	Yes	1				
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1	and the second section of the second section and the second section and the second section sections and the second section sec			
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	1				
Propylene glycol	PPG	20 ²	D	E		Α	Yes	1				
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1				
Propylene tetramer	PTT	30	D	D		Α	Yes	1				
Sulfolane	SFL	39	D	E		Α	Yes	1				
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1				
Tetrahydronaphthalene	THN	32	D	E		Α	Yes	1				
Toluene	TOL	32	D	С		Α	Yes	1				
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	Е		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	E		Α	Yes	1				
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1				



Department of Homeland Security United States Coast Guard

Serial #: C1-1103918

09-Nov-11

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3085 Official #: 1236588

Page 7 of 7

Shipyard: Trinity Marine

Hull #: 4862

Explanation of terms & symbols used in the Table:

Cargo Identification

Name

Chem Code

Compatability Group No.

Note 1

Note 2

Subchanter Subchapter D Subchapter C

Grade

A, B, C Note 4

Hull Type

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

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

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

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.
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.

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 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 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 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

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



Commanding Officer United States Coast Guard Marine Safety Center US Coast Guard Stop 7430 2703 Martin Luther King Jr Ave SE Washington, DC 20593-7430 Staff Symbol: MSC-3 Phone: (202) 795-6731 Email: msc@uscq.mil

16710/P014551/mpc Serial: C1-1600601 February 18, 2016

The Shearer Group, Inc Attn: Mr. Christian Olavesen 3101 Nasa Parkway, Suite I Seabrook, TX 77586 colavesen@shearer-group.com

Subj: Multi-Breasted Tandem Loading for Various Higman Marine Service Barges

Ref: (a) The Shearer Group, Dwg. No. 0131-014-043, Rev. 10, "Tank Barge Tandem Loading," 37 sheets, dated February 8, 2016

(b) Marine Safety Information Bulletin 11-14 dated July 8, 2014

Dear Mr. Olavesen:

We have reviewed the pressure drop calculations for multi-breasted tandem loading that were submitted with your email dated February 28, 2016 (MSC Document No. 1611057). Reference (a) is "Examined." The barges listed in enclosure (1) have vapor control systems previously approved by the Marine Safety Center approval letters listed in the last column of enclosure (1) and are acceptable for dual loading operations. Based on the calculations in reference (a), tandem loading is limited to the simultaneous collection of Subchapter D products and Benzene at a maximum vapor-air mixture density of 0.240 lbm/ft³ at a maximum transfer rate of 4,200 bbl/hr per barge.

Please note that in accordance with the procedural changes outlined in reference (b), tandem loading no longer requires final approval by Commandant (CG-ENG-5), but may be approved by the local Officer in Charge, Marine Inspection (OCMI) and may be subject to additional operational requirements.

(continued...)

Subj: Multi-Breasted Tandem Loading for Higman Marine Barges 16710/P014551/mpc

Serial: C1-1600601 February 18, 2016

Please contact LT Michael Comerford at (202) 795-6782 with questions concerning our review.

Sincerely,

R. W. MOWBRAY Lieutenant, U. S. Coast Guard Chief, Vessel and Cargo Branch By direction

Encl: (1) List of Barges Approved for Tandem Loading

Copy: Supervisor, Marine Safety Detachment Nashville

Subj: Multi-Breasted Tandem Loading for Higman Marine Barges 16710/P014551/mpc Serial: C1-1600601

February 18, 2016

Name	Builder	Hull#	Official No.	MAWP [psi]	PV Valve Setting [psig]	Date	Serial
HTCO 3076	Trinity, Ashland City	4755	1230380	3.00	1.5	Dec. 21, 2010	C1-1003228
HTCO 3077	Trinity, Ashland City	4756	1230381	3.00	1.5	Dec. 21, 2010	C1-1003228
HTCO 3078	Trinity, Ashland City	4767	1230383	3.00	1.5	Dec. 21, 2010	C1-1003228
HTCO 3079	Trinity, Ashland City	4768	1230382	3.00	1.5	Dec. 21, 2010	C1-1003228
HTCO 3080	Trinity, Ashland City	4813	1236583	3.00	1.5	Nov. 9, 2011	C1-1103918
HTCO 3081	Trinity, Ashland City	4814	1236584	3.00	1.5	Nov. 9, 2011	C1-1103918
HTCO 3082	Trinity, Ashland City	4815	1236585	3.00	1.5	Nov. 9, 2011	C1-1103918
HTCO 3083	Trinity, Ashland City	4816	1236586	3.00	1.5	Nov. 9, 2011	C1-1103918
HTCO 3084	Trinity, Ashland City	4861	1236587	3.00	1.5	Nov. 9, 2011	C1-1103918
HTCO 3085	Trinity, Ashland City	4862	1236588	3.00	1.5	Nov. 9, 2011	C1-1103918
HTCO 3086	Trinity, Madisonville	2201-1	1238213	3.00	1.5	Mar. 14, 2012	C1-1201350
HTCO 3087	Trinity, Madisonville	2201-2	1238214	3.00	1.5	Mar. 14, 2012	C1-1201350
HTCO 3088	Trinity, Madisonville	2201-3	1238215	3.00	1.5	Mar. 14, 2012	C1-1201350
HTCO 3089	Trinity, Madisonville	2201-4	1238216	3.00	1.5	Mar. 14, 2012	C1-1201350
HTCO 3094	Trinity Marine	2208-1	1244557	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3095	Trinity Marine	2208-2	1244558	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3096	Trinity Marine	2208-3	1244559	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3097	Trinity Marine	2208-4	1244560	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3098	Trinity Marine	2210-1	1224371	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3099	Trinity Marine	2210-2	1224372	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3100	Trinity Marine	2210-3	1224374	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3101	Trinity Marine	2210-4	1224375	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3102	Trinity Marine	2210-5	1224377	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3103	Trinity Marine	2210-6	1224379	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3104	Trinity Marine	2210-7	1224380	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3105	Trinity Marine	2210-8	1224381	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3106	Trinity Marine	2210-9	1224382	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3107	Trinity Marine	2210-10	1224383	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3108	Trinity Marine	2210-11	1224385	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3109	Trinity Marine	2210-12	1224386	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3110	Trinity Marine	2210-13	1224388	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3111	Trinity Marine	2210-14	1224389	3.00	1.5	Feb. 7, 2013	C1-1300352
HTCO 3112	Trinity, Ashland City	4993	1250050	3.00	1.5	Nov. 1, 2013	C1-1303623