

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

Certification Date: 18 Nov 2019 Expiration Date: 18 Nov 2024

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.

Vessel Name

Official Number

IMO Number

Call Sign

Service

**HFL 222SS** 

1255588

Tank Barge

Hailing Port

BOWLING GREEN, KY

Hull Material
Steel

Horsepower

Propulsion

**UNITED STATES** 

Place Built

Delivery Date

Keel Laid Date

Gross Tons

Net Tons

DWT

Length

HOUSTON, TX

, \_\_..

08Oct2014 19May2014

R-735

R-735

R-2

R-200.0

**UNITED STATES** 

Owner

HFS MARINE LLC

4015 HILLSBORO PIKE STE 202PO BOX 150809

NASHVILLE, TN 37215 UNITED STATES Operator

KIRBY INLAND MARINE, LP

18350 Market St

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

0.03===

0 Chief Mates

0 First Class Pilots

0 First Assistant Engineers

0 Oilers

0 Second Mates
0 Third Mates

0 Radio Officers 0 Able Seamen 0 Second Assistant Engineers0 Third Assistant Engineers

0 Master First Class Pilot

0 Ordinary Seamen

0 Licensed Engineers

0 Mate First Class Pilots

0 Deckhands

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 Carrapelle, 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.

This tank barge is participating in the Eighth and Ninth Coast Guard District's Tank Barge Streamlined

### \*\*\*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/Period	ic/Re-Ins	spection
Date	Zone	A/P/R	Signature
#/IS/2626	Nois TOSIP	A	Scatt Firmin
16-1-21	Betwhene	9	Roberille Helon
9/26/22	Houston	IA	Andrew Wahen
9-6-23	HOU/GAL	A	DAWNY MURKAY

This certificate issued by:

Nicole D. Rodriguez CDR, USGG, By Direction

Officer in Charge, Marine Inspection

Sector Houston-Galveston

Inspection Zone



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

Certification Date: 18 Nov 2019 18 Nov 2024 **Expiration Date:** 

## Certificate of Inspection

Vessel Name: HFL 222SS

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 - Sector Houston-Galveston

#### ---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

30Nov2024

04Nov2014

Internal Structure

30Nov2024

18Nov2019

04Nov2014

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

Authorization:

GRADE "A" AND LOWER FLAMMABLE/COMBUSTUBLE LIQUIDS AND SPECIFIED HAZARDOUS

CARGOES

**Total Capacity** 

Units

Highest Grade Type Part151 Regulated Part153 Regulated

Part154 Regulated

11097

**Barrels** 

Yes

No

No

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

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

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1		12.57
2		12.57
3		12.57

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

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
L ·	1305	8ft 9in	12.57	R, LBS, LC
II .	1466	9ft 6in	12.57	R, LBS, LC
Ш	1573	10ft 0in	12.57	LBS
III -	1682	10ft 6in	12.57	R

#### \*Conditions Of Carriage\*

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), serial #C1-1504901 dated November 24, 2015, may be carried and then only in the tanks indicated.

In accordance with 46 CFR, Part 39, excluding part 39.4000, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letters Serial # C1-1402765 dated August 20, 2014 and Serial # C1-1402215 dated July 11, 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 greater than 0.5% benzene by volume, the person in charge is responsible for ensuring the provisions of 46 CFR Part 197, Subpart C are applicable.

As per 46 CFR 150.130, the Person In Charge of the vessel is responsible for ensuring that the compatibility requirements of 46 CFR, Part150, are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR, Part 150, in conjunction with the reactive group numbers from the "Compat Group No" column listed in the vessel's Cargo Authority.

\*Stability and Trim\*

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



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

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## Certificate of Inspection

Vessel Name: HFL 222SS

Cargo tanks must be loaded uniformly whenever a 46 CFR Subchapter "O" cargo is carried; for trim purposes, the weight of cargo in each tank may exceed the uniformly loaded tank cargo weight by at most 5 percent.

#### --- Inspection Status ---

#### \*Cargo Tanks\*

	Internal Exam			External Exan	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1	-	04Nov2014	30Nov2024	-	-	-
2	-	04Nov2014	30Nov2024	-	-	-
3		04Nov2014	30Nov2024	-	-	-
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
1	-		-	<b>-</b> ,	-	
2	-		-	-	-	
3	_		_	-	_	

### --- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

### --- Fire Fighting Equipment ---

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

Quantity

Class Type

2

40-B

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



Dated: 24-Nov-15

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: HFL 222SS Official #: 1255588

Shipyard: Southwest Shipyard

Hull #: 9726

46 CFR 151 Tank	Group (	Chara	cteris	tics													
Tank Group Information	Cargo Identification			Cargo	Tanks			Cargo Transfer		Environmental Control		Fire	Special Requirements				
Trik Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg	_	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Tem Cont
A #1, #2, #3	12.57	Atmos.	Amb.	ı	1ii 2ii	Integral Gravity	PV	Closed	ı	G-1	NR	NA	Portable	40-1(f)(1), .50-60, .60-70(a), .50-70(b), .50-73, .50-81(a), .50-81(b).	55-1(b), (c), (e), (f), (g), (i), 56-1(a), (b), (c), (d), (e), (f), (g), 58-1(a), (e).	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.

List of Authorized Cargoes

Cargo Identificatio		Conditions of Carriage								
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Re App'd (Y or N)	vcs	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes										
Acetic acid	AAC	4 <sup>2</sup>	0	D	111	Α	Yes	1	.50-73, .55-1(g)	G
Acetic anhydride	ACA	11	0	D	III	Α	Yes	1	.50-73, .55-1(g)	G
Acetonitrile	ATN	37	О	С	III	Α	Yes	3	No	G
Acrylic acid	ACR	4 2	0	D	[]]	Α	Yes	2	.50-70(a), .50-73, .50-81, .58-1(a)	G
Acrylonitrile	ACN	15 <sup>2</sup>	0	С	Ш	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	Ε	Ш	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 <sup>2</sup>	0	NA	H	Α	No	N/A	.50-81, .50-86	G
Aluminum sulfate solution	ASX	43 2	0	NA	111	Α	No	N/A	.58-1(e)	G
Aminoethylethanolamine	AEE	8	0	E	111	Α	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 <sup>2</sup>	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NΑ	Ш	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	11	Α	No	N/A	No	G
Benzene	BNZ	32	0	С	Ш	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 <sup>2</sup>	0	С	Ш	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 <sup>2</sup>	0	С	m	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	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	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	Ш	Α	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18.	0	D	II	Α	No	N/A	No	G
Chemical Oil (refined, containing phenolics)	COD	21	0	E	II.	Α	No	N/A	.50-73	G
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	Ш	Α	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	111	Α	Yes	1	,50-73	G
Creosote	CCM	21 <sup>2</sup>	0	E	Ш	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	E	111	Α	Yes	1	No	G
Cresylate spent caustic	csc	5	0	NA	III	Α	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX	21	0	·E	Ш	Α	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 <sup>2</sup>	0	С	U	Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	19 <sup>2</sup>	0	С	H	Α	Yes	1	No	G
Cyclohexanone	CCH	18	0	D	111	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 <sup>2</sup>	0	E.	Ш	Α	Yes	1	.56-1 (b)	G

<sup>2.</sup> 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.

<sup>3.</sup> Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical



Serial #: C1-Dated: 24

24-Nov-15

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: HFL 222SS Official #: 1255588

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Shipyard: Southwest Shipyard

Cargo Identificatio	n					Conditions of Carriage						
							Vapor R					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Huli Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Cyclohexylamine	CHA	7		D	III	Α	Yes	1	.56-1(a), (b), (c), (g)	G		
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	III	Α	Yes	1	.50-60, .56-1(b)	G		
iso-Decyl acrylate	įΑΙ	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G		
Dichlorobenzene (all isomers)	DBX	36	0	E	1)[	Α	Yes	3	,56-1(a), (b)	G		
1,1-Dichloroethane	DCH	36	0	С	H	Α	Yes	1	No.	G		
2,2'-Dichloroethyl ether	DEE	41	0	Đ	11	Α	Yes	1	.55-1(f)	G		
Dichloromethane	DCM	36	0	NA	]	Α	Yes	5	No	G		
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Ε	H	Α	No	N/A	.56-1(a), (b), (c), (g)	G		
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2	0	Α	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G		
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 <sup>2</sup>	0	Ε	Ш	Α	No	N/A	.56-1(a), (b), (c), (g)	G		
1,1-Dichloropropane	DPB	36	0	С	111	Α	Yes	3	No	G		
1,2-Dichloropropane	DPP	36	0	С	[j]	Α	Yes	3	No	G		
1,3-Dichloropropane	DPC	36	0	С	III	Α	Yes	3	No	G		
1,3-Dichloropropene	DPU	15	0	D	]]	Α	Yes	4	Na	G		
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	Α	Yes	1	No	G		
Diethanolamine	DEA	8	0	E	III	Α	Yes	1	.65-1(c)	G		
Diethylamine	DEN	7	0	С	III	Α	Yes	3	.55-1(c)	G		
Diethylenetriamine	DET	7 2	0	E	H	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	111	Α	Yes	1	.55-1(c)	G		
Diisopropylamine	DIA	7	0	С	11	Α	Yes	3	.55-1(c)	G		
N,N-Dimethylacetamide	DAC	10	0	E	Tfl	Α	Yes	3	.56-1(b)	G		
Dimethylethanolamine	DMB	8	0	D	][]	Α	Yes	1	.56-1(b), (c)	G		
Dimethylformamide	DMF	10	0	Q	111	Α	Yes	1	.55-1(e)	G		
Di-n-propylamine	DNA	7	0	С	П	Α	Yes	3	.55-1(c)	G		
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	[]]	Α	No	N/A	.56-1(b)	G		
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#		Α	No	N/A	No	G		
EE Glycol Ether Mixture	EEG	40	0	D		Α	No	N/A	No	G		
Ethanolamine	MEA	8	0	E	[II	Α	Yes	1	.55-1(c)	G		
Ethyl acrylate	EAC	14	. 0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Ethylamine solution (72% or less)	EAN	7	0	Α	ll	Α	No	N/A	.55-1(b)	G		
N-Ethylbutylamine	EBA	7	0	D		A	Yes	3	.55-1(b)	G		
N-Ethylcyclohexylamine	ECC	7	0	Đ	[]]	Α	Yes	1	.55-1(b)	G		
Ethylene cyanohydrin	ETC	20	0	E	Ш	Α	Yes	1	No	G		
Ethylenediamine	EDA	7 <sup>2</sup>	0	D	111	Α	Yes	1	.55-1(c)	G		
Ethylene dichloride	EDC	36 <sup>2</sup>	0	С	III	Α	Yes	1	No	G		
Ethylene glycol hexyl ether	EGH	40	0	E	111	Α	No	N/A	No	G		
Ethylene glycol monoalkyl ethers	EGC		0	D/E		A	Yes	1	No	G		
Ethylene glycol propyl ether	EGP	40	0	E	(1)	A	Yes	1	No	G		
2-Ethylhexyl acrylate	EAI	14	0	E	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G		
Ethyl methacrylate	ETM	14	0	D/E	lli	A	Yes	2	.50-70(a)	G		
2-Ethyl-3-propylacrolein	EPA	19 2	0	E		A	Yes	1	No	G		
Formaldehyde solution (37% to 50%)	FMS	19 <sup>2</sup>	0	D/E	]	A	Yes	1	,55-1(h)	G		
Formic acid	FMA	42	-0	E	111	A	Yes	<u>'</u>	.50-73, .55-1(i)	G		
Furfural	FFA	19	0		TK	A	Yes	1	.55-1(h)	G		
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	 ]N	A	No	N/A		G		
Glyoxylic Acid Solution (50% or less)	GAC		0	Ë			No	N/A				
Hexamethylenediamine solution	HMC		0	E	Ш	A	Yes	1	,55-1(c)	G		
rrexametriylenediamine solution	ITINIC	- 1					162	- 1				



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## Cargo Authority Attachment

Vessel Name: HFL 222SS Official #: 1255588

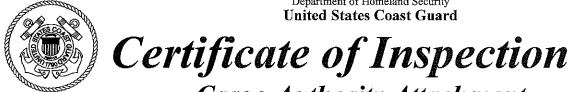
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Shipyard: Southwest Shipyard

Cargo Identification						Conditions of Carriage					
Cargo identification	1			····			Vapor Re		ions of Carriage	<del></del>	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Hexamethyleneimine	нмі	7	0	С	u	Α	Yes	1	.56-1(b), (c)	G	
Hydrocarbon 5-9	HFN		0	С	Ш	Α	Yes	1	.50-70(a), .50-81(a), (b)	G	
Isoprene	IPR	30	0	Α	H	Α	No	N/A	.50-70(a), .50-81(a), (b)	G	
Isoprene, Pentadiene mixture	ίΡN	30	0	В	Ш	Α	No	N/A	.50-70(a), .55-1(c)	G	
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	П	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G	
Mesityl oxide	MSO	18 <sup>2</sup>	0	D	113	Α	Yes	1	Nο	G	
Methyl acrylate	MAM	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Methylcyclopentadiene dimer	MCK	30	0	С	10	Α	Yes	1	No	G	
Methyl diethanolamine	MDE	8	0	E	1]]	Α	Yes	1	.56-1(b), (c)	G	
2-Methyl-5-ethylpyridine	MEP	9	0	E	III	Α	Yes	1	.55-1(e)	G	
Methyl methacrylate	МММ	14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
2-Methylpyridine	MPR	9	0	D	111	Α	Yes	3	.55-1(c)	G	
alpha-Methylstyrene	MSR	30	0	D	11 <del>1</del>	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Morpholine	MPL	7 <sup>2</sup>	0		111	A	Yes	1	.55-1(c)	G	
Nitroethane	NTE	42		D	II.	A	No	N/A	.50-81, .56-1(b)	G	
1- or 2-Nitropropane	NPM	42	0	D	III	A	Yes	1	.50-81	G	
	PDE	30	0	A	10	A	No	N/A	.50-70(a), .50-81	G	
1,3-Pentadiene	PEB	7 <sup>2</sup>	0	E			Yes		.55-1(e)	G	
Polyethylene polyamines					-	A		11	.55-1(c)	G	
iso-Propanolamine	MPA	. 8	0	E	[]	<u>A</u>	Yes	1	.56-1(b), (c)	G	
Propanolamine (iso-, n-)	PAX	8	0	E	111	A	Yes	1		G	
Propionic acid	PNA	4	0	D	- 111	<u>A</u>	Yes	1	.50-73, .55-1(g)		
iso-Propylamine	(PP	7	0	Α	II	Α	Yes	5	.55-1(c)	G	
Pyridine	PRD	9	0	С	III	A	Yes	11	.55-1(e)	G	
Sodium chlorate solution (50% or less)	SDD	0 1,2		NA	III	Α	No	N/A	.50-73	G	
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	Ħ	Α	No	N/A	.50-73, .56-1(a), (b)	G	
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2		NA	Ш	Α	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	III	A	No	N/A	.50-73, .55-1(b)	G	
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	- 11	Α	No	N/A	.50-73, .55-1(b)	G	
Sodium thiocyanate solution (56% or less)	STS	0 1,2	0	NA	[[]	Α	No	N/A	.58-1(a)	G	
Styrene (crude)	STX	30	0	D	[1]	Α	Yes	2	No	G	
Styrene monomer	STY	30	0	ם	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Tetraethylenepentamine	TTP	7	0	E	111	Α	Yes	1	,6 <b>5-1(</b> c)	G	
Tetrahydrofuran	THF	41	0	С	Ш	Α	Yes	1	,50-70(b)	G	
Toluenediamine	TDA	9	0	Ε	П	Α	No	N/A	.50-73, ,56-1(a), (b), (c), (g)	G	
1,2,4-Trichlorobenzene	TCB	36	0	E	III	Α	Yes	1	No	G	
1,1,2-Trichloroethane	TCM	36	0	NA	111	Α	Yes	1	.50-73, .56-1(a)	G	
Trichloroethylene	TCL	36 <sup>2</sup>	0	NA	111	Α	Yes	1	No	G	
1,2,3-Trichloropropane	TCN	36	0	E	II	A	Yes	3	,50-73, .56-1(a)	G	
Triethanolamine	TEA	8 <sup>2</sup>	0	E	111	A	Yes	1	.55-1(b)	G	
	TEN	7		c	II.		Yes	3	.55-1(e)	G	
Triethylamine	TET	7 2		E		A			.55-1(b)	G	
Triethylenetetramine			0		III	Α	Yes	1	.56-1(a), (b), (c)	G	
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA NA	- 111	A	No	N/A	.50-73, .56-1(a), (c).	G	
Trisodium phosphate solution	TSP	5	0	NA	- 111	A	No	N/A	,56-1(b)	G	
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA 		A	No	N/A			
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA		A	No	N/A	.50-73, .56-1(a), (c), (g)	G	
Vinyl acetate	VAM	13	0	С	(III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Vinyl neodecanate	VND	13	0	E	ill	. A	No	N/A	.50-70(a), .50-81(a), (b)	G	

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Vessel Name: HFL 222SS

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## Cargo Authority Attachment

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Shipyard: Southwest Shipyard

Huli #: 9726

Cargo Identification	n								tions of Carriage	
	Chem	Compat	Sub		Huli	Tank	Vapor Re App'd	covery VCS	Special Requirements in 46 CFR	insp.
Name	Code	Group No		Grade	Туре	Group	(YorN)		151 General and Mat'ls of	Period
Vinyltoluene	VNT	13	0	D	Ш	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (	G
Subchapter D Cargoes Authorized for Vapor Contr	ol			•						
Acetone	ACT	18 <sup>2</sup>	D	С		Α	Yes	1		
Acetophenone	ACP	18	D	E		Α	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		Α	Yes	1		10
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		Α	Yes	1		
Amyl acetate (all isomers)	AEC	. 34	D	D		Α	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1		
Benzyl alcohol	BAL	21	D	Е		Α	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyafkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D .	E		Α	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1		
Butyl alcohol (iso-)	IAL	20 <sup>2</sup>	D	D		Α	Yes	1		
Butyl alcohol (n-)	BAN	20 <sup>2</sup>	D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS	20 <sup>2</sup>	D	С		Α	Yes	1		
Butyl alcohol (tert-)	BAT	20 <sup>2</sup>	D	С		Α	Yes	1	700	
Butyl benzyl phthalate	BPH	34	D	Е		Α	Yes	1		
Butyl toluene	BUE	32	D	D	errina erren	Α	Yes	1	CHROTIAL A	
Caprolactam solutions	CLS	22	D	E		Α	Yes	1	1800-00-	
Cyclohexane	CHX	31	D	С		Α	Yes	1		
Cyclohexanol	CHN	20	D	E		Α	Yes	1	W-12/	
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2		
p-Cymene	CMP	32	D	D		Α	Yes	1		
iso-Decaldehyde	IDA	19	D	E		Α	Yes	1		
n-Decaldehyde	DAL	19	D	E		Α	Yes	1		
Decene	DCE	30	D	D		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 <sup>2</sup>	D	E		Α	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		Α	Yes	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	7	/-
Diethylene glycol	DEG	40 <sup>2</sup>	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	A	-
Dipentene	DPN	30	D	Đ		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}		A	Yes	1	**************************************	
	DPG	40	D	<u>-(-,</u>		Α	Yes	1		
				E		Α	Yes	1		
Dipropylene glycol	DFF	33	D	_		_				
Dipropylene glycol Distillates: Flashed feed stocks										
Dipropylene glycol Distillates: Flashed feed stocks Distillates: Straight run	DSR	33	D	E		Α	Yes	1		
Dipropylene glycol Distillates: Flashed feed stocks										



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Shipyard: Southwest Shipyard

Oniola 97. 1255500			age o							
Cargo Identification	1 ·			<b></b>				Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor F App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Ethoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1		
Ethyl acetate	ETA	34	D	С		Α	Yes	1		
Ethyl acetoacetate	EAA	34	D	E		Α	Yes	1	•	
Ethyl alcohol	EAL,	20 <sup>2</sup>	D	С		Α	Yes	1		
Ethylbenzene	ETB	32	D	С		Α	Yes	1		
Ethyl butanol	EBT	20	D	D		Α	Yes	1		
Ethyl tert-butyl ether	EBE	41	D	С		Α	Yes	1		
Ethyl butyrate	EBR	34	D	D		Α	Yes	1		
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1		
Ethylene glycol	EGL	20 <sup>2</sup>	D	E		Α	Yes	1		
Éthylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1		
Ethylene glycol diacetate	EGY	34	D	E		Α	Yes	1		
Ethylene glycol phenyl ether	EPE	40	D	E		Α	Yes	1		
Ethyi-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1.		
2-Ethylhexanol	EHX	20	D	E		Α	Yes	1		
Ethyl propionate	EPR	34	D	С		Α	Yes	1		
Ethyl toluene	ETE	32	D	D		Α	Yes	1		
Formamide	FAM	10	D	Ε		Α	Yes	1		
Furfuryl alcohol	FAL	20 <sup>2</sup>	D	Ε		Α	Yes	1		
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α	Yes	1		-
Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	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		Α	Yes	1		
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1		
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1		
Glycerine	GCR	20 <sup>2</sup>	D	E		Α	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1		
Heptanoic acid	HEP	4	D	E		Α	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1		
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2		
Heptyl acetate	HPE	34	D	Ε		Α	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 <sup>2</sup>	D	B/C		Α	Yes	1		
Hexanoic acid	HXO	4	D	E		Α	Yes	1		
Hexanol	HXN	20	D	D		Α	Yes	1		
Hexene (all isomers)	HEX	30	D	С		Α	Yes	2		
· Hexylene glycol	HXG	20	D	E		Α	Yes	1		
Isophorone	IPH	18 <sup>2</sup>	D	E		Α	Yes	1		
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	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 <sup>2</sup>	D	С		Α	Yes	1		
Methylamyl acetate	MAC	34	D	D		Α	Yes	1		
Methylamyl alcohol	MAA	20	D	D		Α	Yes	11		
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1		
Methyl tert-butyl ether	MBE	41 <sup>2</sup>	D	С		Α	Yes	1		



Certificate of Inspection

## Cargo Authority Attachment

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Shipyard: Southwest Shipyard

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Oniodi #. 1200000			aye o				· · · · · ·	····	11011 #. 9720		
Cargo Identification	1					Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor F App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1			
Methyl butyrate	MBU	34	D	С		Α	Yes	1	119.19		
Methyl ethyl ketone	MEK	18 <sup>2</sup>	D	C		Α	Yes	1			
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1			
Methyl isobutyl ketone	MIK	18 <sup>2</sup>	D	С		Α	Yes	1			
Methyl naphthalene (molten)	MNA	32	Đ	E		Α	Yes	1			
Mineral spirits	MNS	33	D	D		A	Yes	1			
Myrcene	MRE	30	D	D		Α	Yes	1	FILL WAT THE GOVERNMENT OF THE STATE OF THE		
Naphtha: Heavy	NAG	33	D	#		A	Yes	1	and the second second second		
Naphtha: Petroleum	PTN	33	D	#		Α	Yes	1			
Naphtha: Solvent	NSV	33	D	D		Α	Yes	1		TENTALENCAR	
Naphtha: Stoddard solvent	NSS	33	D	D		A	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 <sup>2</sup>	D	Е		Α	Yes	1			
Nonyl phenol	NNP	21	D	E		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	С		Α	Yes	1			
Octanoic acid (all isomers)	OAY	4	D	· E		A	Yes	1			
Octanol (all isomers)	OCX	20 <sup>2</sup>	D	E		A	Yes	1			
Octene (all isomers)	OTX	30	D	С		Α	Yes	2	· · · · · · · · · · · · · · · · · · ·		
Oil, fuel: No. 2	OTW	33	D	D/E		A	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		A	Yes	1	3 CONTRACTOR - L. C.		
Oil, fuel: No. 6	OSX	33	D	E		A	Yes	1			
Oil, misc: Crude	OIL	33	D	A/D		Α	Yes	.1			
Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1			
Oil, misc: Gas, high pour	OGP	33	D	E		Α	Yes	1	****		
Oil, misc: Lubricating	OLB	33	D	Ē		A	Yes	1			
Oil, misc: Residual	ORL	33	D	E		Α	Yes	1			
Oil, misc: Turbine	ОТВ	33	D	E		A	Yes	1			
Pentane (all isomers)	PTY	31	D	Α		Α	Yes	5	I Villar I		
Pentene (all isomers)	PTX	30	D	A		Α	Yes	5			
n-Pentyl propionate	PPE	34	D	D		A	Yes	1			
alpha-Pinene	PIO	30	D	D		A	Yes	1			
beta-Pinene	PIP	30		D		A	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		A	Yes	1	1.07		
Polybutene	PLB	30	 D	E		A	Yes	1	SECTION STATE AND ADDRESS OF THE SECTION OF THE SEC		
Polypropylene glycol	PGC	40	D	E		A	Yes	1			
iso-Propyl acetate	IAC	34	D	c		A	Yes	1			
n-Propyl acetate	PAT	34	D	C		A	Yes	1			
iso-Propyl alcohol	IPA	20 <sup>2</sup>	D	C		A	Yes	1			
n-Propyl alcohol	PAL	20 <sup>2</sup>	D	C		A	Yes	1			
Propylbenzene (all isomers)	PBY	32		D			Yes	1			
iso-Propylcyclohexane	IPX	31	D	D		A	Yes	1			
190-1 Topytoyolottekatte	11 /	U 1						,			



Dated: 2

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# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HFL 222SS
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Shipyard: Southwest Shipyard

Cargo Identific	ation					Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Propylene glycol	PPG	20 <sup>2</sup>	D	Е		Α	Yes	1	• · · · · •			
Propylene glycol methyl ether acetate	PGN	34	ם	D		A	Yes	1				
Propylene tetramer	PTT	30	D	D		Α	Yes	1				
Sulfolane	SFL	39	D	E		Α	Yes	1				
Tetraethylene glycol	TTG	40	D	Е		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	E		Α	Yes	1				
Triethylbenzene	TEB	32	D	E		A	Yes	1				
Triethylene glycol	TEG	40	D	Ε		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	E		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		,		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HFL 222SS Official #: 1255588

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Shipyard: Southwest Shi

Serial #: C1-1504901

24-Nov-15

Hull #: 9726

#### 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.

Compatability 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 (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone

Note 2

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

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

A.B.C 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.

Those subchapter C 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.

Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1). Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3).

Designed to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4). Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

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

Conditions of Carriage

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

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

VCS Category:

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

Category 1

(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 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.