



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

Certification Date:	07 Jan 2021
Expiration Date:	07 Jan 2026

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 212	1307743			Tank Barge

Hailing Port	Hull Material	Horsepower	Propulsion
NASHVILLE, TN	Steel		
UNITED STATES			

Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
HOUSTON, TX	07Jan2021	23Mar2020	R-729	R-729		R-200.0
UNITED STATES			I-	I-		I-0

Owner	Operator
HINES FURLONG LINE INC 4015 HILLSBORO PIKE SUITE 202PO BOX 150809 NASHVILLE, TN 37215 UNITED STATES	FLORIDA MARINE LLC 2360 5TH STREET MANDEVILLE, LA 70001 UNITED STATES

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

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

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

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

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 as 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, Sector Houston-Galveston certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

Annual/Periodic/Re-Inspection				This certificate issued by: Nicole D. Rodriguez, CDR, USCG, By Direction Officer in Charge, Marine Inspection Sector Houston-Galveston Inspection Zone
Date	Zone	A/P/R	Signature	



Certificate of Inspection

Vessel Name: HFL 212

---Hull Exams---

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	31Jan2031	07Jan2021	
Internal Structure	31Jan2026	07Jan2021	

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

Authorization: Grade A (max. 25 psia Reid) and Lower Grade Flammable or Combustible Liquids in 46 CFR Table 30.25-1 or 46 CFR Part 153 Table 2, and Specified Hazardous Cargoe

Total Capacity	Units	Highest Grade Type	Part151 Regulated	Part153 Regulated	Part154 Regulated
11097	Barrels	A	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)
1C	567	12.57
2C	659	12.57
3C	590	12.57

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	1510	9ft 6in	12.57	LBS
II	1510	9ft 6in	11.07	R
III	1726	10ft 6in	9.58	LBS
III	1726	15ft 6in	8.74	R

Conditions Of Carriage

Only those hazardous cargoes named in the vessel's Cargo Authority Attachment, Serial No. C1-2003033 dated September 21, 2020, may be carried and then only in the tanks indicated. The structure of the wing and inner bottom compartments make them suitable for use only as voids. These compartments may not be used to carry cargo or ballast.

When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 US Code of Federal Regulations Part 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 number from the "Compatibility 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. Cargoes with higher densities, up to 12.57 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed below.

Note: Per 46 CFR 151.10-15(c)(2) the max. tank weights listed below 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.

Vapor Control Authorization

In accordance with 46 CFR Part 39, excluding parts 39.4000 and 39.5000, this vessel's vapor control system has been



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inspected to the plans approved by Marine Safety Center letter Serial No. C1-2003033 dated September 21, 2020, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column. Per 46 CFR 150.130, the Person In Charge of the vessel is responsible for ensuring that the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using the 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 Cargo Authority Attachment.

--- Inspection Status ---

Cargo Tanks

Tank Id	Internal Exam			External Exam		
	Previous	Last	Next	Previous	Last	Next
1C	-	07Jan2021	31Jan2031	-	-	-
2C	-	07Jan2021	31Jan2031	-	-	-
3C	-	07Jan2021	31Jan2031	-	-	-

Hydro Test

Tank Id	Safety Valves	Previous	Last	Next
1C	-	-	-	-
2C	-	-	-	-
3C	-	-	-	-

---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



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **HFL 212**
Official # **1307743**

Shipyard: **Southwest**
Hull # **9852**

46 CFR 151 Tank Group Characteristics

Tank Group Information		Cargo Identification			Tanks			Cargo Transfer		Environmental Control		Fire Protection		Special Requirements					
Tank Grp	Tanks in Group	Density	Press	Temp	Hull Type	Cargo Seg Tank	Type	Vent	Gauge	High Class	Low Class	Tanks	Headway Space	Portable	General	Material of Construction		Flammable	Temp Control
A	#1-#3	12.57	Airless	Amb	II	III	Integral Glove	PV	Closed	II	G-1	NR	NA	Portable	40-49(1), 50-60, 61-70(b), 70-73	55-70(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12)	III	NR	NR

- 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 Headway Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo headway space. It 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

Name	Cargo Identification					Conditions of Carriage				
	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery At p/h (Y or N)	IOS Category	Special Requirements Item 46 CFR 151 General and Matrix of	Resp. Placed

Authorized Subchapter O Cargoes

Nitrotriacetic acid (sodium salt solution)	NCA	34	D/O 3			A	No	N/A		
Dielins (C13+, all isomers)	OFZ	30	D/O E		III	A	Yes	1		NR
Orange juice (concentrated)	OJC	0	D/O 3			A	No	N/A		
Sodium acetate solution	SAN	34	D/O 3	#		A	No	N/A		
Vegetable protein solution (hydrolyzed) (if non-harmful and non-combustible)	VPS	43	D/O 3	NA		A	No	N/A		
Acetonitrile	ATN	37	O C		III	A	Yes	3	No	NR
Acrylonitrile	ACN	15 ²	O C		II	A	Yes	4	55-70(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12)	NR
Adiponitrile	ADN	37	O E		II	A	Yes	1	NR	NR
Alkyl (C7-C9) nitrates	AKN	34 ²	O NA		III	A	No	N/A	55-70, 55-73(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12)	NR
Anthracene	AEE	8	O E		III	A	Yes	1	NR	NR
Ammonium bisulfite solution (70% or less)	ABX	40 ²	O NA		III	A	No	N/A	55-70, 55-73(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12)	NR
Ammonium hydroxide (28% or less NH3)	AMH	6	O NA		II	A	No	N/A	55-70(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12)	NR
Aniline	ANO	33	O NA		II	A	No	N/A	NR	NR
Benzene	BNZ	32	O C		II	A	Yes	1	55-70	NR
Benzene or hydrocarbon mixtures (having 0% Benzene or more)	BHD	32 ²	O C		II	A	Yes	1	55-70	NR
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 ²	O C		III	A	Yes	1	55-70, 55-73(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12)	NR
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	O D/C		II	A	Yes	1	55-70	NR
Butyl acrylate (all isomers)	BAR	14	O D		III	A	Yes	2	55-70(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12)	NR
Butyl methacrylate	BMH	14	O D		II	A	Yes	2	55-70(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12)	NR
Butyl methacrylate (all isomers)	BAE	14	O C		II	A	Yes	1	55-70	NR
Cumene or (I, G, B)	CPO	16	O D		II	A	No	N/A	NR	NR
Chlorobenzene	CRB	36	O D		III	A	Yes	1	55-70	NR
Chloroform	CRF	26	O NA		III	A	Yes	1	NR	NR
Diethyl methyl sulfoxide	DCM	39	O D		III	A	Yes	1	NR	NR
Cresol	CCV	21 ²	O E		II	A	Yes	1	NR	NR
Cresols (all isomers)	CRS	21	O E		III	A	Yes	1	NR	NR
Cresylic acid mixture	CSC	21	O NA		III	A	No	N/A	55-70(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12)	NR
Cresylic acid bar	CRX	21	O E		III	A	Yes	1	NR	NR
Diethyl ether	CFA	19 ²	O C		II	A	Yes	4	55-70(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12)	NR
Crude hydrocarbon feedstock (containing Butylaldehydes and Ethylpropyl acetone)	CHG	19 ²	O C		III	A	Yes	1	NR	NR
Cyclohexanone	CCH	18	O D		III	A	Yes	1	55-70(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12)	NR
Cyclohexanone, Cyclohexyl methyl ether	CRX	18 ²	O E		II	A	Yes	1	NR	NR



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Cargo Authority Attachment

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Shipyard: Southwest

Hull #: 9852

Cargo Identification						Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Matrix of Construction		Temp Period
							App'd (Y or N)	VCS Category			
Hexamethylenediamine solution	HMC	7	O	E	III	A	Yes	1	50-103		
Hexamethylenimine	HMI	7	O	C	III	A	Yes	1	50-103, (e)		
Isoprene	IPR	30	O	A	III	A	No	N/A	50-103(a), 50-103(a)(6)		
Isoprene, Pentadiene mixture	IPN	30	O	B	III	A	No	N/A	50-103(a), 50-103(c)		
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPI	5	O	NA	III	A	No	N/A	50-73, 50-103, (e), (f)		
Mesityl oxide	MSO	10 ²	O	D	III	A	Yes	1	No		
Methyl acrylate	MAM	14	O	C	III	A	Yes	2	50-70(a), 50-83(a), (b)		
Methylcyclopentadiene dimer	MCK	30	O	C	III	A	Yes	1	No		
Methyl diethanolamine	MDE	6	O	E	III	A	Yes	1	50-103, (f)		
2-Methyl-5-ethyl pyridine	MEP	9	O	E	III	A	Yes	1	50-103(e)		
Methyl methacrylate	MMM	14	O	C	III	A	Yes	2	50-70(a), 50-83(a), (b)		
2-Methylpyridine	MPR	9	O	D	II	A	Yes	3	50-103(e)		
alpha-Methylstyrene	MSR	30	O	D	III	A	Yes	2	50-34(a), 50-83(a), (b)		
Morpholine	MPL	7 ²	O	D	III	A	Yes	1	50-103(e)		
Nitroethane	NTE	42	O	D	II	A	No	N/A	50-61, 50-103		
1- or 2-Nitropropane	NPM	42	O	D	III	A	Yes	1	50-81		
1,3-Pentadiene	PDE	30	O	A	III	A	No	N/A	50-70(a), 50-81		
Polyethylene polyamines	PEB	7 ⁴	O	E	III	A	Yes	1	50-103		
Potassium chloride solution (brine)	PCSR	0	O	NA	III	A	No	N/A			
Iso-Propanolamine	MFA	8	O	E	III	A	Yes	1	50-103		
Propanolamine (iso-, n-)	PAX	8	O	E	III	A	Yes	1	50-103, (f)		
Iso-propylamine	IPP	7	O	A	II	A	Yes	6	50-103		
Pyridine	PRD	9	O	C	III	A	Yes	1	50-103		
Pyrolysis Gasoline (containing benzene)	PYG	32	O	C	II	A	No	N/A	50-80		
Sodium chlorate solution (50% or less)	SDD	0 ¹²	O	NA	III	A	No	N/A	50-73		
Sodium hypochlorite solution (20% or less)	SDD	5	O	NA	III	A	No	N/A	50-73, 50-103, (b)		
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SDH	0 ¹²	O	NA	III	A	Yes	1	50-73, 50-103		
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SDH	0 ¹¹	O	NA	III	A	No	N/A	50-73, 50-103		
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SDH	0 ¹¹	O	NA	II	A	No	N/A	50-73, 50-103		
Styrene monomer	SDY	30	O	A	II	A	Yes	1	50-70, (c), 50-83(a), (b)		
Tetraethylene acetate	TEP	7	O	E	III	A	Yes	1	50-103		
Tetrahydrofuran	THF	41	O	C	III	A	Yes	1	50-103		
1,2,4-Trichlorobenzene	TCB	10	O	E	III	A	Yes	1	No		
1,1,1-Trichloroethane	TCE	4 ²	O	NA	II	A	No	N/A	50-73, 50-103		
1,1,2-Trichloroethane	TCE	05	O	NA	II	A	Yes	1	50-103, 50-104		
Trichloroethylene	TCE	06 ²	O	NA	III	A	Yes	1	No		
1,2,3-Trichloropropane	TCN	10	O	E	II	A	Yes	3	50-103, 50-104		
Triethanolamine	TEA	06 ²	O	E	III	A	Yes	1	50-103		
Triethylamine	TEA	7	O	C	I	A	Yes	3	50-103		
Triethylenetetramine	TET	7 ¹⁰	O	E	III	A	Yes	1	50-103		
Triphenylborane (10% or less) caustic soda solution	TFB	0	O	NA	III	A	No	N/A	50-103, (b), (c)		
Trisodium phosphate solution	TSP	0	O	NA	II	A	No	N/A	50-73, 50-103, (b)		
Urea Ammonium nitrate solution (containing more than 10% NH3)	UAS	0	O	NA	II	A	No	N/A	50-103		
Vanillin black liquor (free alkali content 2% or more)	VBK	7	O	NA	III	A	No	N/A	50-73, 50-103, (b), (c)		

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Steward: Southwest
Call #: 8852

Name	Cargo Identification				Conditions of Carriage				MPC	
	Chem Code	Contst Group No	Sub Chapter	Order	Temp. Limit	Stack Status	Vapor Control (Y or N)	VCS (Y or N)		Special Requirements in 48 CFR, 151 General and Maritime of Construction
Vinyl acetate	VAM	13	D	C	III	A	Yes	2	See 48 CFR 151.101-1	1
Vinyl acetate/styrene	VSD	13	D	E	III	A	No	2	See 48 CFR 151.101-1	1
Vinylbenzene	VNT	13	D	D	III	A	Yes	2	See 48 CFR 151.101-1	1

Subchapter D Cargoes Authorized for Vapor Control

Acetone	ACF	18	D	C		A	Yes	1		
Acetylacetone	ACF	18	D	E		A	Yes	1		
Acetone (C6-C17) (secondary) and its mixtures	ACW	20	F	E		A	Yes	1		
Acetone (C6-C17) (secondary) and its mixtures	ACA	20	U	E		A	Yes	1		
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	AEB	20	D	E		A	Yes	1		
Allyl acetate (all isomers)	AEC	34	D	D		A	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		A	Yes	1		
Benzyl acetate	BZE	34	D	E		A	Yes	1		
Benzyl alcohol	BAL	21	D	E		A	Yes	1		
Benzyl base derivatives containing Poly(2-Dialkylamino) (C2-C3) glycols, Polyalkyl-oxyl(C2-C10) glycol monoalkyl(C1-C14) ethers, and Benzoate esters	BFY	20	D	F		A	Yes	1		
Butyl alcohol (all isomers)	BAL	20	D	D		A	Yes	1		
Butyl alcohol (tert)	BAL	20	D	D		A	Yes	1		
Butyl alcohol (n)	BAN	20	D	D		A	Yes	1		
Butyl alcohol (sec)	BAS	20	D	C		A	Yes	1		
Butyl alcohol (tert)	BAT	20	D	C		A	Yes	1		
Butylbenzene (all isomers)	BBB	34	D	E		A	Yes	1		
Butyltoluene	BDE	32	D	F		A	Yes	1		
Caproaldehyde (all isomers)	CAF	22	D	F		A	Yes	1		
Cyclohexane	CYE	31	D	C		A	Yes	1		
Cyclohexene	CYC	31	D	C		A	Yes	1		
Cyclohexane	CYN	25	D	F		A	Yes	1		
Cyclohexanol	CYC	34	U	D		A	Yes	1		
Cyclohexane (all isomers)	CFC	30	A	D/E		A	Yes	2		
Cyclopentane	CYP	31	D	E		A	Yes	1		
Dipropyl ether	DPP	32	D	D		A	Yes	1		
Dipropyl ether	DPA	30	D	E		A	Yes	1		
Dodecane	DAL	19	D	D		A	Yes	1		
Dodecane	DCC	19	D	H		A	Yes	1		
Dodecane	DCE	26	D	E		A	Yes	1		
Decyl alcohol (all isomers)	DAI	20	D	E		A	Yes	1		
Dodecane, sec-Alkyl(C9+)benzenes	DDZ	22	D	E		A	Yes	1		
Diacetone alcohol	DAI	22	D	D		A	Yes	1		
Dodecane (all isomers)	DDA	19	D	F		A	Yes	1		

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Shipyard: Southwest
Hull #: 0852

Cargo Identification						Conditions of Carriage				
Name	Chem Code	Compat Group No	HAZ Character	Grade	Hull Type	Deck Group	Visible Recovery Appl (Y or N)	VCS Category	Special Requirements in 45 CFR 161 General and Marfs of Construction	Insp. Period
Diothylbenzene	DEB	32	D	D		A	Yes	1		
Diethylene glycol	DEG	40 ²	D	E		A	Yes	1		
Cisobutylene	DBL	30	D	C		A	Yes	1		
Diisobutyl ketone	DIK	18	D	D		A	Yes	1		
Dioisopropylbenzene (all isomers)	DIX	32	D	E		A	Yes	1		
Dimethyl phthalate	DTL	31	D	E		A	Yes	1		
Diethyl phthalate	DOP	34	D	E		A	Yes	1		
Dipentene	DFM	30	D	D		A	Yes	1		
Diphenyl	DIL	32	D	D/E		A	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		A	Yes	1		
Diphenyl ether	DPE	41	C	(E)		A	Yes	1		
Dipropylene glycol	DPG	40	D	E		A	Yes	1		
Distillates: Flashed feed stocks	DFE	33	D	F		A	Yes	1		
Distillates: Straight run	DSR	33	D	F		A	Yes	1		
Dodecene (all isomers)	DO2	20	D	D		A	Yes	1		
Dodecylbenzene see Alkyl(C9+)benzenes	DOB	32	D	E		A	Yes	1		
2-Ethoxyethyl acetate	ECA	34	D	D		A	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1		
Ethyl acetate	ETA	34	D	C		A	Yes	1		
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1		
Ethyl alcohol	EAL	20 ²	D	C		A	Yes	1		
Ethylbenzene	ETB	32	D	C		A	Yes	1		
Ethyl butanol	EB1	20	D	D		A	Yes	1		
Ethyl tert butyl ether	EBE	41	D	C		A	Yes	1		
Ethyl butyrate	EBR	34	D	D		A	Yes	1		
Ethyl cyclohexane	ECY	31	D	F		A	Yes	1		
Ethylene glycol	EGL	20 ²	D	E		A	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	E		A	Yes	1		
Ethylene glycol dodecyl ether	EGY	31	D	C		A	Yes	1		
Ethylene glycol phenyl ether	EPH	40	D	E		A	Yes	1		
Ethylhexanoate	EHX	34	D	D		A	Yes	1		
2-Ethylhexanol	EHX	20	D	F		A	Yes	1		
Ethyl propionate	EPP	34	D	C		A	Yes	1		
Ethyl toluene	ETL	27	D	C		A	Yes	1		
Formamide	FAM	10	HX	F		A	Yes	1		
Formyl acetate	FAL	20 ²	D	E		A	Yes	1		
Gasoline blending stocks: Alkylates	GAB	20	D	MC		A	Yes	1		
Gasoline blending stocks: Reformates	GAR	20	D	MC		A	Yes	1		

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Cargo Authority Attachment

Vessel Name: RPL 212
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Shipyard: Southwest
Hull #: 9852

Cargo Identification						Conditions of Carriage				
Name	Chem. Class	Commod. Group No.	Sub-Group	Code	Hull Type	Tank Group	Vapor Recovery Applied (Y or N)	MTS Category	Special Requirements in 45 CFR 151.100 and Marine Code of Construction	Insp. Period
Gasolines: Automotive (containing not over 4.25 grams lead per gallon)	GAT	22	D	A		A	Yes	1		
Gasolines: Aviation (containing not over 0.86 grams of lead per gallon)	GAV	23	D	A		A	Yes	1		
Gasolines: Casinghead (natural)	GCC	24	D	A/C		A	Yes	1		
Gasolines: Polymer	GPL	25	D	A/C		A	Yes	1		
Gasolates: Straight run	GSR	26	D	A/C		A	Yes	1		
Glycerine	GDP	20	G	F		A	Yes	1		
Heptane (all isomers) - see Alkanes (C6-C9) (all isomers)	HEX	31	D	C		A	Yes	1		
Heptanoic acid	HSM	7	D	C		A	Yes	1		
Heptanol (all isomers)	HGX	28	D	A/C		A	Yes	1		
Heptene (all isomers)	HPX	30	D	C		A	Yes	2		
Heptyl acetate	HPE	34	D	E		A	Yes	1		
Hexane (all isomers) - see Alkanes (C6-C9)	HXS	31	D	B/C		A	Yes	1		
Hexanoic acid	HXO	4	D	E		A	Yes	1		
Hexanol	HXN	29	D	D		A	Yes	1		
Hexene (all isomers)	HEX	30	D	C		A	Yes	2		
Hexylene glycol	HXT	28	D	E		A	Yes	1		
Isophorone	PHI	18	D	B		A	Yes	1		
Jet fuel JP-4	JPF	24	D	A		A	Yes	1		
Jet fuel JP-5 (kerosene, low sulfur)	JPV	25	D	D		A	Yes	1		
Kerosene	KRC	25	D	D		A	Yes	1		
Lauryl alcohol	LAA	10	D	A		A	Yes	1		
Methyl acetate	MLA	11	D	D		A	Yes	1		
Methyl alcohol	MAL	20	G	C		A	Yes	1		
Methylamine, low salt	MEV	1	D	D		A	Yes	1		
Methylamine alcohol	MAA	20	G	D		A	Yes	1		
Methyl amyl ketone	MAK	10	D	C		A	Yes	1		
Methyl tert-butyl ether	MTBE	4	D	C		A	Yes	1		
Methyl butyl ketone	MBK	10	D	C		A	Yes	1		
Methyl butylene	MBU	10	D	C		A	Yes	1		
Methylcyclohexane	MCH	11	D	C		A	Yes	1		
Methyl ethyl ketone	MEK	10	D	C		A	Yes	1		
Methyl heptyl ketone	MHK	10	D	C		A	Yes	1		
2-Methyl-2-hydroxy-3-butanol	MHB	10	D	C		A	Yes	1		
Methyl isobutyl ketone	MIBK	10	D	C		A	Yes	1		
Mineral spirits	MNS	23	D	C		A	Yes	1		
Myrcene	MRC	30	D	C		A	Yes	1		
Naphtha Heavy	NHC	20	D	A		A	Yes	1		
Naphtha Petroleum	NPK	20	D	A		A	Yes	1		

This document is only valid when attached to, and referenced by, a current, valid Certificate of Inspection.



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HFL 212
Official #: 1307743

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Shipyard: Southwest
Hull #: 0852

Cargo Identification						Conditions of Carriage				
Name	Chem Code	Compat Group No.	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR, 154 General and HULLS of Construction	Permit
Naphthalene	NSV	33	B	D		A	Yes	1		
Naphthalene (Solvent)	NSS	33	D	D		A	Yes	1		
Naphthalene (Solvent)	NVM	33	D	C		A	Yes	1		
Naphthalene (Solvent)	NEA	4	D	E		A	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes	1		
Nonane (all isomers)	NON	30	D	D		A	Yes	2		
Nonyl alcohol (all isomers)	NNS	20 ²	D	E		A	Yes	1		
Nonyl phenol	NNP	21	D	E		A	Yes	1		
Nonyl phenol poly(o)-methoxylates	NPE	40	D	E		A	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	C		A	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	E		A	Yes	1		
Octanol (all isomers)	OCX	20 ²	D	E		A	Yes	1		
Octene (all isomers)	OTX	30	D	C		A	Yes	2		
Oil, fuel No. 2	OTW	33	D	D/E		A	Yes	1		
Oil, fuel No. 2-U	OTD	33	D	D		A	Yes	1		
Oil, fuel No. 4	OFR	33	D	D/E		A	Yes	1		
Oil, fuel No. 5	OSX	33	D	E		A	Yes	1		
Oil, misc. Crude	OIL	33	D	A/D		A	Yes	1		
Oil, misc. Diesel	ODS	33	D	D/E		A	Yes	1		
Oil, misc. Gas, high pour	OGP	33	D	E		A	Yes	1		
Oil, misc. Lubricant	OLB	33	D			A	Yes	1		
Oil, misc. Fuel	ORL	33	D	E		A	Yes	1		
Oil, misc. Fuel	OTB	33	D	E		A	Yes	1		
alpha-Olefins (C6-C10) mixtures	OAM	30	D	E		A	Yes	1		
Paraffins (all isomers)	PTY	31	D	A		A	Yes	1		
Paraffins (all isomers)	PYX	33	D	A		A	Yes	1		
n-Propylpropyl ether	PPE	34	D	D		A	Yes	1		
alpha-Pinene	PIC	30	D	D		A	Yes	1		
beta-Pinene	PIP	30	D	D		A	Yes	1		
Poly(2,2,4,4-tetramethyl-1,3-butadiene)	PAC	40	D	E		A	Yes	1		
Poly(2,2,4,4-tetramethyl-1,3-butadiene)	PAI	34	D	J		A	Yes	1		
Polystyrene	PLB	30	D	E		A	Yes	1		
Polypropylene glycol	PGC	40	D	E		A	Yes	1		
Propanediol	PAD	10	D	A		A	Yes	1		
propyl acetate	IAC	34	D	C		A	Yes	1		
n-Propyl alcohol	PAT	34	D	C		A	Yes	1		
isopropyl alcohol	IPA	20 ²	D	C		A	Yes	1		
Propyl acetate	PAL	30	D	C		A	Yes	1		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **HFL 212**
Official #: **1307743**

Shoypard: **Southwest**
Hull #: **0852**

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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 151.6b, and 46 CFR Part 153 Table 2
Chem Code none	The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual. Certain mixtures of cargoes may not have a CHRIS Code assigned.
Compatibility Group No	The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 153 (Tables 1 and 1). In accordance with 46 CFR 153.133, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 153 are met. Cargoes must be checked for compatibility using the Figures, Tables, and appendices of 46 CFR 153 in conjunction with the assigned reactive group number.
Note 1	Because of the very high reactivity or potential end point of cargo or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-APSD-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC, 20503-0001. Telephone (202) 572-1425.
Note 2	See Appendix I to 46 CFR Part 153 for groupings in the compatibility chart.
Subchapter	The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified.
Subchapter D	Those flammable and combustible liquids listed in 46 CFR Table 30.25-1.
Subchapter O	Those hazardous cargoes listed in 46 CFR Table 151.95 and 46 CFR Part 153 Table 2.
Note 3	Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-ocean-going barges.
Grade	The cargo classification assigned to each flammable or combustible liquid. Grades as defined in 46 CFR Part 153 indicate a provisional assignment based upon literature sources which were not verified by manufacturer data. The Person-in-Charge shall verify the cargo grade based on Manufacturer's data and ensure that the barge is authorized for carriage of that grade of cargo.
A, B, C	Flammable liquid cargoes, as defined in 46 CFR 30.10-2C.
D, E	Combustible liquid cargoes, as defined in 46 CFR 30.10-15.
Note #	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 Manufacturer's data and ensure that the barge is authorized for carriage of that grade of cargo.
NA	Those subchapter O cargoes which are not classified as a flammable or combustible liquid.
#	No flammability/combustibility grade has been assigned yet as the necessary flash point/vapor pressure data for such assignments are presently not available.
Hull Type	The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.
I	Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1).
II	Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3).
III	Designed to carry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).
NA	Not applicable to barges certificated under Subchapter D.
Conditions of Carriage	
Tank Group	The vessel's tank group (as defined in Section 41) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
Conditions of Carriage	
Tank Group	The vessel's tank group (as defined in the 46 CFR Tank Group Characteristics) listed on page 11 which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
VCS Category	The specified cargo's primary (1) or secondary (2) vapor control system.
Category 1	(No additional VCS requirements above those for benzene, gasoline, and crude oil) All requirements applying to the handling of liquid and hazardous materials in Tables 1, 2, and 46 Code of Federal Regulations (CFR) apply to these cargoes. These specifications along with vapor control systems are in 46 CFR 155.750, 46 CFR 151.10-1, 46 CFR 150.110, 46 CFR 33.35 and 46 CFR 30. The cargo tank venting system calculations (46 CFR 39.2011) and the maximum gross calculations (46 CFR 33.3001) and use appropriate inflation factors, vaporizer rates and vapor growth rates.
Category 2	(Whenver) Provisions for the safe handling of these cargoes can adversely affect the vessel by loading safety components and restraining vapor flow when used low to cargo tank overpressure relief. The vessel's owner must provide a method of ensuring all VCS safety components are functional and properly held up to not causing an unsafe condition to be introduced into the vessel's cargo piping and cargo tanks. The vessel shall be accountable 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 hazardous can be a problem in detection and/or
Category 3	(If a liquid VCS is used, the vessel's tank group calculations with the primary, secondary and tertiary calculations are in 46 CFR 39.2011, 46 CFR 33.3001, and 46 CFR 33.3002.)
Category 4	(Whenver) Provisions for the safe handling of these cargoes can adversely affect the vessel by loading safety components and restraining vapor flow when used low to cargo tank overpressure relief. The vessel's owner must provide a method of ensuring all VCS safety components are functional and properly held up to not causing an unsafe condition to be introduced into the vessel's cargo piping and cargo tanks. The vessel shall be accountable 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 hazardous can be a problem in detection and/or
Category 5	(Whenver) Provisions for the safe handling of these cargoes can adversely affect the vessel by loading safety components and restraining vapor flow when used low to cargo tank overpressure relief. The vessel's owner must provide a method of ensuring all VCS safety components are functional and properly held up to not causing an unsafe condition to be introduced into the vessel's cargo piping and cargo tanks. The vessel shall be accountable 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 hazardous can be a problem in detection and/or
Category 6	(Whenver) Provisions for the safe handling of these cargoes can adversely affect the vessel by loading safety components and restraining vapor flow when used low to cargo tank overpressure relief. The vessel's owner must provide a method of ensuring all VCS safety components are functional and properly held up to not causing an unsafe condition to be introduced into the vessel's cargo piping and cargo tanks. The vessel shall be accountable 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 hazardous can be a problem in detection and/or
Category 7	(Whenver) Provisions for the safe handling of these cargoes can adversely affect the vessel by loading safety components and restraining vapor flow when used low to cargo tank overpressure relief. The vessel's owner must provide a method of ensuring all VCS safety components are functional and properly held up to not causing an unsafe condition to be introduced into the vessel's cargo piping and cargo tanks. The vessel shall be accountable 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 hazardous can be a problem in detection and/or
Other	(Whenver) Provisions for the safe handling of these cargoes can adversely affect the vessel by loading safety components and restraining vapor flow when used low to cargo tank overpressure relief. The vessel's owner must provide a method of ensuring all VCS safety components are functional and properly held up to not causing an unsafe condition to be introduced into the vessel's cargo piping and cargo tanks. The vessel shall be accountable 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 hazardous can be a problem in detection and/or

