

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

Certification Date: 05 Dec 2023 Expiration Date: 05 Dec 2028

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 Nu	mber	Call Sign	Service	
HFL 408			1210585				Tank Ba	arge
Hailing Port			Hull Material	Ho	sepower	Propulsion		
BOWLING G	REEN, KY		Steel					
			C.CC.					
UNITED STA	TES							
Place Built	V		Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
JEFFERSON	VILLE, IN		225002000	29Jul2008	R-1619	R-1619		R-297.5
			22Sep2008	293412000	+	1-		1-0
UNITED STA	TES							
Owner				Opera			uncertain ann an Aireann an Airean	
	ONG LINE INC					MARINE, LP		
	ORO PIKE STE	202			50 MARKET			
NASHVILLE, UNITED STA					ANNELVIEN ITED STATE	1.7		
ONITED OTA				011				
This vessel m	ust be manned v	vith the fo	llowing licensed	and unlicens	ed Personne	L. Included in w	hich there mu	ist be
			kermen, 0 HSC					
0 Masters	0	Licensed Ma	ates 0 Chief	Engineers	00	ilers		
0 Chief Mates	. 0	First Class I		Assistant Engine	ers			
0 Second Mat	tes 0	Radio Office		nd Assistant Eng				
0 Third Mates	. 0	Able Seame		Assistant Engin	=======================================			
0 Master First	Class Pilot 0	Ordinary Se		sed Engineers				
0 Mate First C		Deckhands		fied Member En	gineer			
		rry 0 Pas	sengers, 0 Other	Persons in o	rew, 0 Perso	ns in addition t	o crew, and n	o Others. Total
Persons allow					Press.	nangkaka inipitaturki takapai addinasa adinasa.		
Route Perm	itted And Cond	itions Of	Operation:					
Lakes, I	Bays, and S	ounds	plus Limited	I Coastwi	se			
Also, in fai Florida.	r weather only	, not mo	re than twelve	(12) miles	from shore	between St.	Marks and Ca	rrabelle,
mbia masa 2			-N			1 1C CED	21 10 21 (2)	2) 76 this
			sh water servi ore than 6 mon					inspected using
	ntervals per 4 atus occurs.	6 CFR 31	.10-21(a)(1) a	nd the cogn	izant OCMI n	notified in w	riting as so	oon as this
This tank ba	rge is partici	pating i	n the Eighth C	oast Guard	District's !	Tank Barge St	reamlined In	spection Program
***SEE NEX	T PAGE FOR	ADDITIO	NAL CERTIFIC	CATE INFOR	RMATION***	ks		
With this Inspe	ection for Certific	cation hav	ina been comple	eted at Port A	rthur, TX, UI	VITED STATES	S. the Officer	in Charge, Marine
Inspection, Ma	arine Safety Unit	Port Arth		essel, in all r				le vessel inspection
	Annual/Perio			1	This certificat	te issued by:	Jax11	Mada
Date	Zone	A/P/R	Signatu			WOODMAN, C	DR USCG	By direction
9-17-2024	Baton Rouge	A	Scott Firm	***************************************	Officer in Charge, M			
4 2 3 3	Tellett (beg				Silver in Griange, W	1650	y Unit Port Ar	thur
					Inspection Zone	MIGHTIC GALE	y Other Ollys	**************************************



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

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### **Certificate of Inspection**

Vessel Name: HFL 408

(TBSIP). Inspection activities aboard this barge shall be conducted per its Tank Barge Action Plan (TAP). Inspection issues concerning this barge should be directed to OCMI Houston-Galveston.

### ---Hull Exams---

 Exam Type
 Next Exam
 Last Exam
 Prior Exam

 DryDock
 31Jan2029
 31Jan2019
 17Oct2013

 Internal Structure
 31Dec2028
 05Dec2023
 31Jan2019

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

Authorization: FLAMMABLE/COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

Total Capacity Units Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

29404 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)
1 P/S	739	13.6
2 P/S	865	13.6
3 P/S	784	13.6

### \*Loading Constraints - Stability\*

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
1	3682	9ft 9in	6.8	R, LBS
11	3682	9ft 9in	9.2	R, LBS
	3682	9ft 9in	12.1	R, LBS
11	3682	9ft 9in	13.6	R, LBS
<b>#</b> []	4549	11ft 6in	13.6	R, LBS

### \*Conditions Of Carriage\*

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial # C1-0801884, dated July 14, 2008, may be carried. The specified hazardous cargoes may be carried only in the tanks indicated.

Per 46 CFR 150.130, the person in charge of the vessel is responsible for ensuring the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using figures, tables, and appendices of 46 CFR 150 in conjunction with the reactive group number from the "Compat Group No" column is listed in the vessel's CAA.

When the vessel is carrying cargoes containing 0.5% or greater benzene by volume, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C, are applied.

### \*Vapor Control Authorization\*

Per 46 CFR 39, excluding Part 39.4000, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letter serial # C1-0801884, dated 18 June 2008, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

In accordance with 46 CFR 39.5000, this vessel's VCS has been evaluated and approved for multi-breasted tandem loading



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## **Certificate of Inspection**

Vessel Name: HFL 408

with other vessels specifically approved by Marine Safety Center letter Serial No. C1-2202008 dated June 9, 2022

\*Stability and Trim\*

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

The maximum design density of cargo which may be filled to the tank top is 8.7lbs/gal. Cargoes with higher densities, up to 13.6lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

### --- Inspection Status ---

### \*Fuel Tanks\*

	Internal Exami	nations	
Tank ID	Previous	Last	Next
Machinery Deck	-	22Sep2008	-

### \*Cargo Tanks\*

	Internal Exam			External Exan	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	17Oct2013	31Jan2019	31Jan2029	-	-	-
2 P/S	17Oct2013	31Jan2019	31Jan2029	-	-	-
3 P/S	17Oct2013	31Jan2019	31Jan2029	Anh		-
			Hydro Test			
Tank Id	Safety Valves	5	Previous	Last	Next	
1 P/S	₩-		-	**	**	
2 P/S	-		***	-	-	
3 P/S	_		_		_	

### --- 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\*\*\*





14-Jul-08

# Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: HFL 408 Official #: 1210585 Shipyard: JEFFBOAT

Hull #: 05-2542

46 CFR 151 Tank	<b>Group Characte</b>	ristics													
Tank Group Information	Cargo Identification		Cargo	Tanks			Cargo Transfer		Environmental Control		Fire	Special Requirements			
Tnk Grp Tanks in Group	Density Press. Te	mp. Typ	Seq	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A #1P/S, #2P/S, #3P/S	13.6 Atmos. Ar	mb. II	11i 2ii	Integral Gravity	PV	Closed	11	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50-	55-1(b), (c), (e), (f), (j), 56-1(a), (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	n						1	Condi	tions of Carriage	
	1		•				Vapor Re	covery		***************************************
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
Authorized Subchapter O Cargoes										
Acetonitrile	ATN	37	0	C	Ш	Α	Yes	3	No	G
Acrylonitrile	ACN	15 <sup>2</sup>	0	С	II	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	E	ll.	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	III	Α	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	0	E	III	Α	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 <sup>2</sup>	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	111	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	1))	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 <sup>2</sup>	0	С	111	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 <sup>2</sup>	0	С	111	Α	Yes	1	.50-80; .56-1(b), (d), (f), (g)	G
Berizene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	III	Α	Yes	1	.50-60	G
Butyl acrylate (all isomers)	BAR	14	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	BMH	14	0	D	III	A	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)	CPO	18	O	D	11	Α	No	N/A	No	G
Carbon tetrachloride	СВТ	36	0	NA	111	A	No	N/Á	No	G
Caustic potash solution	CPS	5 <sup>2</sup>	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	5 <sup>2</sup>	O	NA	III	Α	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COE	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	III	Α	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	111	Α	Yes	1	.50-73	G
Creosote	CCV	/ 21 2	0	E	111	A	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	Ε	111	A	Yes	1	No	G
Cresylate spent caustic	CSC	5	0	NA	111	A	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX	***************************************	0	E	III	Α	Yes		.55-1(f)	G
Crotonaldehyde	CTA	19 2	0	c	II	A	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	СНО	i	0	С	111	Α	No	N/A	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	111	A	Yes		.56-1 (b)	G
Cyclohexylamine	CHA	7	0	D	111	A	Yes		.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0		111	A	Yes		.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	E		A	Yes		.50-70(a), .50-81(a), (b), .55-1(c)	G



Serial #: C Dated:

C1-0801884 14-Jul-08

## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: HFL 408 Official #: 1210585

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Shipyard: JEFFBOAT

Cargo Identification							(	Condi	tions of Carriage	· · · · · · · · · · · · · · · · · · ·
				-				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
Dichlorobenzene (all isomers)	DBX	36	0	E	111	Α	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	0	С	111	Α	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	ll l	Α	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	111	Α	No	N/A	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	111	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	E	111	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	111	Α	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	Ш	Α	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	11	Α	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	O	Ç	IJ	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	E	111	Α	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	С	III	A	Yes	3	.55-1(c)	Ģ
Diethylenetriamine	DET	7 2	0	E		A	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	III	A	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	E	[]]	Α	Yes	1	.55-1(c)	G
Diisopropylamine	DIA	7	0	С		Α	Yes	3	.55-1(c)	G
N.N-Dimethylacetamide	DAC	10	0	E		Α	Yes	3	.56-1(b)	G
Dimethylethanolamine	DMB		ō	D	III	Α	Yes	1	.56-1(b), (c)	G
Dimethylformamide	DMF		0	D	III	Α	Yes	1	.55-1(e)	G
Di-n-propylamine	DNA	<del>.,,.,.,.,.,.,.,</del> ,,.	0	C	II	A	Yes	3	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	<del>-</del>	Ē		Α	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS		0	#	11	A	No	N/A		G
EE Glycol Ether Mixture	EEG		o	D.	111	Α	No	N/A		G
Ethanolamine	MEA		0	E	111	A	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0		111		Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solution (72% or less)	EAN	7	<del></del>			^A	No No	N/A		G
N-Ethylbutylamine	EBA	7			<u>''</u> -	<u>^</u> _	Yes		.55-1(b)	G
N-Ethylcyclohexylamine	ECC		0	D			Yes	1	.55-1(b)	G
	ETC	20	<del>-</del>	E		<u>^</u>	Yes	1	No	G
Ethylene cyanohydrin	EDA	7 2	0	D	111		Yes	1	.55-1(c)	G
Ethylenediamine  Ethylene diablarida	EDC		0	C	111		Yes	1	No	G
Ethylene dichloride	EGH		0	E	111	A	No	N/A		G
Ethylene glycol hexyl ether Ethylene glycol monoalkyl ethers	EGC		0	D/E	111	<u>^</u> _	Yes	1	No	G
	EGP		-	E	111	<u>^</u>	Yes	1	No	
Ethylene glycol propyl ether	EAI	14	0	E	111	A	Yes		.50-70(a), .50-81(a), (b)	G
2-Ethylhexyl acrylate	ETM		-	D/E	- 111	A	Yes	2	.50-70(a)	G
Ethyl methacrylate	EPA	19 <sup>2</sup>	0	E		A	Yes	1	No	G
2-Ethyl-3-propylacrolein									.55-1(h)	G
Formaldehyde solution (37% to 50%)	FMS	····	0	D/E		A	Yes	1	.55-1(h)	G
Furfural Chateroldebude colution (FDW ex less)	FFA GTA	19	0	D	111	A	Yes	1		G
Glutaraldehyde solution (50% or less)			<u>o</u> _	NA		<u>A</u>	No	N/A		G
Hexamethylenediamine solution	HMC			<u>E</u>		A	Yes	1	.55-1(c) .56-1(b), (c)	G
Hexamethyleneimine	HMI	7		<u>c</u>	<u>  </u>	A_	Yes	·		Ğ
Hydrocarbon 5-9	HFN			C	- 111	A	Yes	1	.50-70(a), .50-81(a), (b) .50-70(a), .50-81(a), (b)	
Isoprene	IPR	30	0	<u>A</u>	<u> </u>	Α	No	N/A		G
Isoprene, Pentadiene mixture	IPN		0	В		A	No	N/A		G
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)		5	0	NA -		A	No	N/A		G
Mesityl oxide	MSC		0	D		A	Yes	1	No	G
Methyl acrylate	MAN	1 14	0	С	, III	A	Yes	2	.50-70(a), .50-81(a), (b)	G



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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: HFL 408 Official #: 1210585

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Shipyard: JEFFBOAT

Cargo Identification	1						(	Condi	tions of Carriage	
							Vapor R	ecovery		-
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
Methylcyclopentadiene dimer	MCK	30	0	С	111	Α	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	Е	111	Α	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	Е	111	Α	Yes	1	.55-1(e)	G
Methyl methacrylate	MMM	14	0	С	111	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	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 2	0	D	III	Α	Yes	1	.55-1(c)	G
1- or 2-Nitropropane	NPM	42	0	D	111	Α	Yes	1	.50-81	G
1,3-Pentadiene	PDE	30	0	Α	111	Α	No	N/A	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	111	Α	No	N/A	Na	G
Polyethylene polyamines	PEB	7 2	0	Е		Α	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	Е	111	Α	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	E	III	Α	Yes	1	.56-1(b), (c)	G
iso-Propylamine	IPP	7	0	Α		Α	No	N/A	.55-1(c)	G
Pyridine	PRD	9	0	С	111	Α	Yes	1	.55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		H	Α	No	N/A	.50-73, .55-1(j)	G
Sodium aluminate solution (45% or less)	SAU	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	SDD	0 1.2	0	NA	111	Α	No	N/A	.50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b)	G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2	0	NA	111	Α	Yes	1	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SŚI	0 1,2	0	NA	III	Α	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	II	Α	No	N/A	.50-73, .55-1(b)	G
Styrene (crude)	STX		0	D	III	Α	Yes	2	No	G
Styrene monomer	STY	30	0	D	111	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	III	Α	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	С	HI	Α	Yes	1	.50-70(b)	G
Toluenediamine	TDA	9	0	E	H	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G
1,2,4-Trichlorobenzene	TCB	36	0	E	 III	A	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		A	Yes	1	No	G
1,2,3-Trichloropropane	TCN	36	0	E		Α	Yes	3	.50-73, .56-1(a)	G
Triethanolamine	TEA	8 <sup>2</sup>	0	E	111	Α	Yes	1	.55-1(b)	G
Triethylamine	TEN	7	0	С	11	Α	Yes	3	.55-1(e)	G
Triethylenetetramine	TET	7 2	0	E	111	Α	Yes		.55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	III	Α	No	N/A	.56-1(a), (b), (c)	G
Trisodium phosphate solution	TSP	5	0	NA	III	A	No	N/A		G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS		0	NA		A	No	N/A	·	G
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA		A	No	N/A	,	G
Vinyl acetate	VAM		0	C	111	A	Yes	·	.50-70(e), .50-81(e), (b)	G
Vinyl neodecanate	VND		0	E			No	 N/A	··	G
Vinyltoluene	VNT	13	0	D	111	A	Yes		.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	Ç		A	Yes	1		
Acetophenone	ACP	18	D	Е		Α	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		Α	Yes	1		
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		



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# Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: HFL 408 Official #: 1210585

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Shipyard: JEFFBOAT

Cargo Identification	n							Condi	tions of Carriage	<del></del>
	1	<del></del>		1		:	.,,,	Recovery		<u> </u>
	Chem		Sub		Heil	Tank	App'd	VCS	Special Requirements in 46 CFR	Insp.
Name	Code	Group No	Chapter	Grade	Type	Group	(Y or N)	Category	151 General and Mat'is of	Period
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1		
Benzyl alcohol	BAL	21	D	E		Α	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		Α	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1		
Butyl alcohol (iso-)	IAL	20 2	D	D		A	Yes	1		
Butyl alcohol (n-)	BAN		D	D	•••	Α	Yes	1		
Butyl alcohol (sec-)	BAS		D	С		Α	Yes	1	, , , , , , , , , , , , , , , , , , ,	
Butyl alcohol (tert-)	BAT		D	С	*****************	Α	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		Α	Yes	1		
Butyl toluene	BUE	32	Ð	D		Α	Yes	1		
Caprolactam solutions	CLS	22	α	E		Α	Yes	1		
Cyclohexane	CHX	31	D	C		Α	Yes	1	· · · · · · · · · · · · · · · · · · ·	
Cyclohexanol	CHN	20	D	E		Α	Yes	1	, , , , , , , , , , , , , , , , , , ,	
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	Е		Α	Yes	1	·····	
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes	1		
Diacetone alcohol	DAA	20 <sup>2</sup>	ם	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 <sup>2</sup>	D	E		Α	Yes	1		
Diisobutylene	DBL	30	D	С		Α	Yes	1		
Diisobutyl ketone	DIK	18	D	D		A	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	Е		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	E		Α	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DD8	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	D	Ç		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>	Đ	Ε		Α	Yes	1		



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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: HFL 408 Official #: 1210585

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Shipyard: JEFFBOAT

Cargo Identification	on					Conditions of Carriage						
				:		<del>) 1-11 / / / / / / / / / / / / / / / / / </del>	Vapor I	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		
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1				
Ethylene glycol diacetate	EGY	34	D	Ε		Α	Yes	1				
Ethylene glycol phenyl ether	EPE	40	D	E		Α	Yes	1				
Ethyl-3-ethoxypropionate	EEP	34	Ð	D		Α	Yes	1				
2-Ethylhexanol	EHX	20	D	E		Α	Yes	1				
Ethyl propionate	EPR	34	D	С		A	Yes	1				
Ethyl toluene	ETE	32	D	D		Α	Yes	1				
Formamide	FAM	10	D	E		Α	Yes	1				
Furfuryl alcohol	FAL	20 <sup>2</sup>	D	E		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	С		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	Ç		Α	Yes	1				
Heptanoic acid	HEP	4	D	E	*********	Α	Yes	1				
Heptanol (all isomers)	нтх	20	D	D/E		Α	Yes	1				
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2				
Heptyl acetate	HPE	34	Ď	E		Α	Yes	1				
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 2	D	B/C		Α	Yes	1				
Hexanoic acid	нхо	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	<del></del>	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		A	Yes	1				
Methyl alcohol	MAL	20 <sup>2</sup>	D	С		Α	Yes	1				
Methylamyl acetate	MAC	34	D	D		A	Yes	1				
Methylamyl alcohol	MAA	20	D	D		Α	Yes	1				
Methyl amyl ketone	MAK		D	 D		Α	Yes	1				
Methyl tert-butyl ether	MBE	41 2				^	Yes	1				
Methyl butyl ketone	MBK	····		c		Α	Yes	1				
Methyl butyrate	MBU		D	c	~~~~~	Α	Yes	1				
Methyl ethyl ketone	MEK	~~~~	D	c			Yes	1				
Methyl heptyl ketone	MHK		D	D		A	Yes	<u>-</u> 1				
Methyl isobutyl ketone	MIK	18 <sup>2</sup>	D	Č		<u>A</u>	Yes	1		***************************************		
Methyl naphthalene (molten)	MNA		D	E		$\frac{1}{A}$	Yes	1				
Mineral spirits	MNS			D			Yes					
Myrcene	MRE		D	D D		A	Yes	1				
Naphtha: Heavy	NAG		D	#			Yes					
						A						
Naphtha: Petroleum	PTN		D	#		A	Yes	1				
Naphtha: Solvent	NSV		D	D		A	Yes	*************				
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	1				



Serial #: C1-0801884

14-Jul-08

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: HFL 408 Official #: 1210585

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Shipyard: JEFFBOAT

Cargo Identificat	ion					:		Condi	tions of Carriage	
		***************************************					Vapor I	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
Naphtha: Varnish makers and painters (75%)	NVM	33	D	C		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	Ε		Α	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	QAX	31	D	С		Α	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes	1		
Octanol (all isomers)	OCX	20 <sup>2</sup>	D	E		Α	Yes	1		
Octene (all isomers)	OTX	30	D	C		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	E		Α	Yes	1		
Oil, misc: Crude	OIL	33	D	C/D		Α	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		A	Yes	1		
Oil, misc: Lubricating	OLB	33	D	E		A	Yes	1	***************************************	
Oil, misc: Residual	ORL	33	D	E		Α	Yes	1		
Oil, misc: Turbine	OTB	33	D	E		A	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		
iso-Propyl acetate	IAC	34	D	С		Α	Yes	1		
n-Propyl acetate	PAT	34	D	C		Α	Yes	1	· · · · · · · · · · · · · · · · · · ·	
iso-Propyl alcohol	IPA	20 <sup>2</sup>	D	Ç		Α	Yes	1		
n-Propyl alcohol	PAL	20 <sup>2</sup>	D	С		Α	Yes	1		
Propylbenzene (all isomers)	PBY	32	D	D	***************************************	Α	Yes	1	· · · · · · · · · · · · · · · · · · ·	
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	1		
Propylene glycol	PPG	20 <sup>2</sup>	D	E		Α	Yes	1		
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1	<u> </u>	
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		A	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	Ε		A	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	E	***************************************	A	Yes	1		
Undecene	UDC	30	 D	D/E		A	Yes	1		
1-Undecyl alcohol	UND	20	D	E	···		Yes	1		··
Xylenes (ortho-, meta-, para-)	XLX	32	D			Α	Yes	1		
		~-			~~~~		- 100	···········		



### Department of Homeland Security United States Coast Guard

Serial #:

C1-0801884

Dated:

# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HFL 408

Official #: 1210585

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Shipyard: JEFFBOAT

Hull #: 05-2542

#### Explanation of terms & symbols used in the Table:

#### Cargo Identification

Name

Chem Code

Compatability Group No.

Note 1 Note 2

Subchanter Subchapter D Subchapter O

Note 3

Grade

A. B. C Note 4

NA

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

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 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

Tank Group 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 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

Vapor Recover 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

(Polymenizes) Polymenization 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 Category 7

(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.

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