



Certificate of Analysis

Report Date: 8/31/2020

Vessel/Equipment:	Web 241 & 248	File Number:	98697-216			
Shore Tank:	216	Lab Number:	083020-004			
Product:	CSO/MCB	Client:	ExxonMobil			
Terminal:	PFT, Mt. Airy	Client Reference:	4986215			
Subject:	Discharge					
Sample type:	First Foot	Sample Location:	ST 216			
				Spec		
Method	<u>Component</u>	<u>Result</u>	<u>Units</u>	<u>Min</u>	- <u>Max</u>	Off-Spec

D5705 Hydrogen Sulfide (Vapor Phase)

<5

ppm

-

D5705 Temperature

140

°F

-

Sample type:	Composite	Sample Location:			ST 216	
Method	Component	Result	Units	Min	Spec - Max	Off-Spec
D4052	API Gravity at 60°F	-2.2			- -2.5	
D4294	Sulfur Content	2.22	wt%		- 3.0	
D2161	Viscosity-SUS at 210°F	97.21	SUS		- 110	
D93B	Flash Point	176	°F	170	-	
D482	Ash Content	0.043	mass%		- 0.08	
D97	Pour Point	15	°C		-	
D97	Pour Point	59	°F		-	
IP143	Asphaltenes	1.90	%(m/m)		- 8	
D4530	Micro Carbon Residue Test	8.15	%(m/m)		-	
D473	Sediment by Extraction	0.04	%m/m			
D95	Water by Distillation	<0.05	vol%		- 0.20	
D4870	Total Sediment by Hot Filtration	0.10	mass%		-	
IP501	Aluminum	77	ppm		-	
IP501	Silicon	102	ppm		-	
IP501	Vanadium	1.6	ppm		-	
IP501	Sodium	4.1	ppm		-	
IP501M	Potassium	0.8	ppm		-	
D5291	Carbon	89.99	wt%	89	-	
D5291	Hydrogen	7.61	wt%		- 8	
PPCO-7317-BH	BMCI	128.2		125	-	

Signed: Aaron Manguno
Laboratory Supervisor

Reviewed by: Glenn Hanson
VP of Laboratories