



Certificate of Analysis
 Number: 2500-22040167-001A

Greeley Laboratory
 2881 S. 31st Ave
 Unit 6-8
 Greeley, CO 80631

Jeff Braden
 WSP USA
 4600 W 60th Ave
 Arvada, CO 80003

May 04, 2022

Station Name: Bost Farm 34C-11-L
 Sample Conditions:

Sampled By: Jeff Braden
 Sample Of: Liquid Spot
 Sample Date: 04/25/2022 11:00

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Total Sediment and Water	ASTM D-4007	0.00	vol%		SO	04/25/2022
Sulfur Content by X-ray	ASTM D-4294	2.084	wt%		SO	04/25/2022
Viscosity - Kinematic @ 104°F	ASTM D-445	4.340	cSt		AC	04/27/2022
Viscosity - Kinematic @ 104°F	ASTM D-445	40.30	SUS		AC	04/27/2022
API Gravity @ 60° F	ASTM D-5002	30.41	°		SO	04/25/2022
Specific Gravity @ 60/60° F	ASTM D-5002	0.8740	—		SO	04/25/2022
Density @ 60° F	ASTM D-5002	0.8731	g/ml		SO	04/25/2022
VP of Crude Oil: V/L = 4:1 @ 100 °F	ASTM D-6377	1.02	psi		SO	04/25/2022
RVPE (D323 Equivalent) @ 100 °F	ASTM D-6377	0.85	psi		SO	04/25/2022
Initial Boiling Point	ASTM D-86-IBP	315.5	°F		AC	04/27/2022
Pour Point	ASTM D-97	-19	°C		SO	04/26/2022

Ryleigh Jacobs

Data reviewed by: Ryleigh Jacobs, Laboratory Analyst
 Methods: ASTM D-4007, ASTM D-4294, ASTM D-5002, ASTM D-6377, ASTM D-97

Matthew Loveley

Data reviewed by: Matthew Loveley, Laboratory Manager
 Methods: ASTM D-445, ASTM D-86-IBP

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.