



haltermannsolutions

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Certificate of Analysis

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PRODUCT: ASTM D6079 Lubricity Standard Diesel Batch No.: S-000117

PRODUCT CODE: HF2140 Tank No.: Tote

Date: 11/13/2020

TEST	METHOD	UNITS	SPECIFICATIONS			RESULTS
			MIN		MAX	
Distillation - IBP	ASTM D86 ¹	°C		Report		282.6
5%		°C		Report		290.4
10%		°C		Report		290.7
20%		°C		Report		293.9
30%		°C		Report		296.7
40%		°C		Report		299.7
50%		°C		Report		303.8
60%		°C		Report		308.6
70%		°C		Report		314.3
80%		°C		Report		321.2
90%		°C		Report		330.6
95%		°C		Report		338.7
Distillation - EP		°C		Report		347.0
Recovery		vol %		Report		98.8
Residue		vol %		Report		1.2
Loss		vol %		Report		0
Gravity @ 15.56 °C	ASTM D4052 ¹	°API		Report		25.18
Density @ 15.56 °C	ASTM D4052 ¹	g/cm ³		Report		0.9022
Flash Point	ASTM D93 ¹	°C		Report		138
Viscosity, 40 °C	ASTM D445 ¹	cSt		Report		8.33
Sulfur, Total	ASTM D5453 ¹	mg/kg		Report		15
Lubricity, HFRR, @ 60°C	ASTM D6079 ¹	µm	400		430	400

Quality Assurance Technician

[Signature]

¹ Haltermann Solutions is accredited to ISO/IEC 17025 by ANAB for the tests referred to with this footnote. Certificate Number: AT-2501

² Tested by ISO/IEC 17025 accredited subcontractor.



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