

## **CERTIFICATE OF ANALYSIS**

VGP Holdings LLC

Address:

3901 River Road

Cincinnati, OH 45204

US

Plant: Fax To: HOUS

HITEC ® 11188 Bulk

Product: PO#:

4522588439

:Order #: Expires:

0001407279

January 1, 2028

Material Number:

031335

Lot#: Scheduled Ship Date: 0125HO002

January 27, 2025

Shipped Via:

Shipped From:

UP

Container Number :Manufacturing Date: HOUS

**GATX 210088** 

JANUARY, 2025

2.18.25

HITEC ® 11188 Bulk

## Sales Specification Characteristics

Inspection	Note	Units	Methods	Min	<i>Limits</i> Target	Max	Actual
Boron		%M	D4951	0.18	0.23	0.28	0.22
Calcium		%M	D4951	1.13	1.22	1,31	1.24
Magnesium		%M	D4951	0.63	0.70	0.77	0.75
Molybdenum		ppm	D4951	817	988	1158	1024
Nitrogen		%M	D5291 Mod	0.94	1.07	1.20	1.05
Phosphorus		%M	D4951	0.83	0.86	0.93	0.85
Zinc		%M	D4951	0.87	0.95	1.03	0.94
Flash Point, PMCC		°C	D93	135	_	-	>135
Specific Gravity @ 15.6°C		-	D4052	0.955	0.970	0.985	0.957
Kinematic Viscosity @ 100°C		cSt	D445	45	56	67	55

## Sales Notes

Additional Product Information Handling Temperature:

Recommended storage and handling temperature: 40-45°C Maximum storage temperature: 50°C Maximum handling temperature (< 5 days): 70°C Maximum skin temperature (agitated): 121°C Shelf life @ 10-40°C: 36 months Shelf life @ 45-50°C: 3 months, Typical Viscosity @ 40°C: 784 cSt Typical TBN: 89 mg KOH/gr Delta Gravity = 0.00064/°C

B 0.2302 Ca 1.2639 Mg 0.7007 Mo 0.1015 P 0.8470 Zn 0.9323

Comments: BL# 200879923 Certification Date: 01/27/2025 Certified by: Dustle Barnes

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