



2780 Waterfront Pkwy E., Indianapolis IN 46214

Phone: 317-328-5660 Fax: 317-328-2359 www.calumetspecialty.com

Certificate of Analysis

PO Number:	4524704618	Order Number:	803483
Product:	CALUMET 420-460	Shipping Date:	May 6, 2021
Cust. Mat. No:	16055819	Date of Mfg:	May 3, 2021
Product Code:	300345100000	Qty:	44,140 LB
Lot Number:	2105030046	Containter ID:	206043
Carrier:	0010010087-ELLIOTT TRUCK LINE, INC.	Truck ID:	416

Billing:	Shipping To:	Shipping From:
UNIVAR SOLUTIONS USA PO BOX 34325 SEATTLE WA 98124-1325	UNIVAR USA INC. 2600 Garfield Ave Commerce CA 90040-2608	Calumet Refining, LLC 1756 Old Highway 7 Cotton Valley LA 71018-2989

Test Description	Units	Method	Min.	Max.	Results
API GRAVITY @ 60°F		D4052	43.0	48.0	46.0
SPECIFIC GRAVITY @ 60/60°F		D1250	0.7883	0.8109	0.7972
POUNDS PER GALLON @ 60°F	lb/gal	D1250			6.646
COLOR, SAYBOLT		D156	28		30
FLASH POINT, PMCC (°F)	°F	D93			202
DISTILLATION, IBP (°F)	°F	D86	422		437
DISTILLATION, 5% (°F)	°F	D86			442
DISTILLATION, 10% (°F)	°F	D86			444
DISTILLATION, 20% (°F)	°F	D86			445
DISTILLATION, 30% (°F)	°F	D86			446
DISTILLATION, 40% (°F)	°F	D86			447
DISTILLATION, 50% (°F)	°F	D86			448
DISTILLATION, 60% (°F)	°F	D86			450
DISTILLATION, 70% (°F)	°F	D86			452
DISTILLATION, 80% (°F)	°F	D86			455
DISTILLATION, 90% (°F)	°F	D86			460

Analysis Certified By:	<u>Daniel Holder</u>	<u>Laboratory Manager</u>	<u><i>Daniel Holder</i></u>
	Printed Name	Title	Lab Signature/Loader

All sales of Products by Calumet Specialty Products Partners, L.P. and its subsidiaries and affiliates are subject to the applicable terms and conditions of sale at <http://www.calumetspecialty.com/customer-service/terms-of-sale>, which are incorporated herein by reference.



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<u>Test Description</u>	<u>Units</u>	<u>Method</u>	<u>Min.</u>	<u>Max.</u>	<u>Results</u>
DISTILLATION, 95% (°F)	°F	D86			467
DISTILLATION, DP (°F)	°F	D86		475	472
WATER CONTENT (ppm)	ppm	D1533		500	70
MEETS CARB REQUIREMENTS					YES
VAPOR PRESSURE	mmHg20C	CARB-ARB310			0.1

Analysis Certified By :	<u>Daniel Holder</u>	<u>Laboratory Manager</u>	<u><i>Daniel Holder</i></u>
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