



Lot #:	0002857609
Material #:	16055820
Material Name:	420-460 <1

2780 Waterfront Pkwy E., Indianapolis IN 46214

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

Certificate of Analysis

PO Number:	4525592494	Order Number:	1029896
Product:	CALUMET 420-460	Shipping Date:	Jun 22, 2022
Cust. Mat. No:	16055819	Date of Mfg:	Jun 1, 2022
Product Code:	300345100000	Qty:	10,180 LB
Batch #:	2206014018	Container ID:	95605
Carrier:	0060001343-A CUSTOMER TRUCK	Truck ID:	864023

Billing:	Shipping To:	Shipping From:
UNIVAR SOLUTIONS USA INC 6000 PARKWOOD PLACE DUBLIN OH 43016-0000	UNIVAR SOLUTIONS- CONROE MEADOR RD 9733 MEADOR ROAD CONROE TX 77305-3087	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	46.3
SPECIFIC GRAVITY @ 60/60°F		D1250	0.7883	0.8109	0.7958
POUNDS PER GALLON @ 60°F	lb/gal	D1250			6.635
COLOR, SAYBOLT		D156	28		30
FLASH POINT, PMCC (°F)	°F	D93			201
DISTILLATION, IBP (°F)	°F	D86	422		431
DISTILLATION, 5% (°F)	°F	D86			438
DISTILLATION, 10% (°F)	°F	D86			439
DISTILLATION, 20% (°F)	°F	D86			440
DISTILLATION, 30% (°F)	°F	D86			442
DISTILLATION, 40% (°F)	°F	D86			444
DISTILLATION, 50% (°F)	°F	D86			446
DISTILLATION, 60% (°F)	°F	D86			449
DISTILLATION, 70% (°F)	°F	D86			452
DISTILLATION, 80% (°F)	°F	D86			457
DISTILLATION, 90% (°F)	°F	D86			465

Analysis Certified By:	Daniel Holder	Laboratory Manager	<i>Daniel Holder</i>
	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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 Batch #: 2206014018
 Carrier: 0060001343-A CUSTOMER TRUCK

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 6000 PARKWOOD PLACE
 DUBLIN OH 43016-0000

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 9733 MEADOR ROAD
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Calumet Refining, LLC
 1756 Old Highway 7
 Cotton Valley LA 71018-2989

<u>Test Description</u>	<u>Units</u>	<u>Method</u>	<u>Min.</u>	<u>Max.</u>	<u>Results</u>
DISTILLATION, 95% (°F)	°F	D86			475
DISTILLATION, DP (°F)	°F	D86		475	475
WATER CONTENT	ppm	D1533		500	43
MEETS CARB REQUIREMENTS					YES
VAPOR PRESSURE	mmHg20C	CARB-ARB310			0.1

Analysis Certified By: Daniel Holder Laboratory Manager Daniel Holder
 Printed Name Title Lab Signature/Loader

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