



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:

UNIVAR SOLUTIONS USA INC
6000 PARKWOOD PLACE
DUBLIN OH 43016-0000

Shipping To:

UNIVAR SOLUTIONS- CONROE MEADOR RD
9733 MEADOR ROAD
CONROE TX 77305-3087

Shipping From:

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

Printed Name

Laboratory Manager

Title

Daniel Holder

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.



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
 Product: CALUMET 420-460
 Cust. Mat. No: 16055819
 Product Code: 300345100000
 Batch #: 2206014018
 Carrier: 0060001343-A CUSTOMER TRUCK

Order Number: 1029896
 Shipping Date: Jun 22, 2022
 Date of Mfg: Jun 1, 2022
 Qty: 10,180 LB
 Containter ID: 95605
 Truck ID: 864023

Billing:

UNIVAR SOLUTIONS USA INC
 6000 PARKWOOD PLACE
 DUBLIN OH 43016-0000

Shipping To:

UNIVAR SOLUTIONS- CONROE MEADOR RD
 9733 MEADOR ROAD
 CONROE TX 77305-3087

Shipping From:

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

Test Description	Units	Method	Min.	Max.	Results
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

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.