

Evonik Oil Additives Canada Inc., 12695 County Rd. 2, Morrisburg, Ontario K0C 1X0

 VALVOLINE COMPANY (THE)  
 3901 RIVER RD  
 CINCINNATI OH 45204

## Certificate of Analysis

|                        |                       |
|------------------------|-----------------------|
| Date                   | Aug 19, 2024          |
| Delivery Number / Item | 3010737368 / 000001   |
| Order Number / Item    | 2006581411 / 000001   |
| Date                   | Aug 7, 2024           |
| <b>Oil Additives</b>   |                       |
| Contact Person         | Ms. Rose Niles        |
| Mail                   | rose.niles@evonik.com |
| Customer no.           | 251040                |
| Fax                    | +1DRIVERCOPY          |
| Your purchase order    | 4522562728            |
| Date                   | Aug 6, 2024           |

Product VISCOPLEX® 0-112(5001)  
 175 KG Steel Drum 1A1  
 Customer material no. 101488  
 Quantity 12 EA  
 Batch 72934262  
 Manufacturing date 06.2024

| Property                | Test method | Unit  | Value    | Specification          |       |
|-------------------------|-------------|-------|----------|------------------------|-------|
|                         |             |       |          | Min.                   | Max.  |
| PHYSICAL DATA:          |             |       |          |                        |       |
| APPEARANCE              | VISUAL      |       | in spec. | clear to slightly hazy |       |
| PRODUCT VISCOSITY 100°C | ASTM D 445  | mm²/s | 297      | 175                    | 350   |
| 18,0% WT. IN RMF 5/4:   |             |       |          |                        |       |
| KIN. VISCOSITY 100°C    | ASTM D 445  | mm²/s | 10.60    | 10.40                  | 11.00 |

Quality Control Evonik Oil Additives Canada Inc.

Signature: Ryan Dumouchel Pamela Spencer  
 Lab Manager Plant Manager



Statement of the above data does not release the buyer from his legal obligation to examine the material on receipt.  
 These data cannot be construed as a legally binding warranty or guarantee of  
 certain product properties or of the suitability of the product for a specific application.

\*\*\* End \*\*\*

K-10551

PP 225  
comp #1

## CERTIFICATE OF ANALYSIS

BASE OIL SALES AND MARKETING

Excel Paralubes

**EXCEL  
PARALUBES**

11/09/2023

## PRODUCT:

1040944

Pure Performance Base Oil 225N

CERTIFICATE ISSUED:

## TANK NO:

T-70019

## DATA SUPPLIED IS FROM SELECTED TANK

| TEST METHOD   | PROPERTIES                    | VALUE          | RESULTS | UOM      | SPECIFICATIONS  |
|---------------|-------------------------------|----------------|---------|----------|-----------------|
|               |                               |                |         |          | MINIMUM MAXIMUM |
| ASTM E2680    | Appearance                    | Clear & Bright |         |          | Clear & Bright  |
| ASTM D4052    | Specific Gravity @ 60F        | 0.8590         |         |          |                 |
| ASTM D4052    | API Gravity                   | 33.23          |         | API      |                 |
| ASTM D445     | Viscosity, kinematic @ 40C    | 40.46          |         | cSt      |                 |
| ASTM D445     | Viscosity, kinematic @ 100C   | 6.39           |         | cSt      | 6.38 6.58       |
| ASTM D2161    | Viscosity, Sayb. Univ. @ 100F | 208            |         | SUS      |                 |
| ASTM D2161    | Viscosity, Sayb. Univ. @ 210F | 47.6           |         | SUS      |                 |
| ASTM D2270    | Viscosity Index               | 107            |         |          |                 |
| ASTM D92      | Flash Point                   | 455            |         | °F       | 420             |
| ASTM D92      | Flash Point                   | 235            |         | °C       |                 |
| ASTM D5950    | Pour Point                    | 10             |         | °F       | 10              |
| ASTM D5950    | Pour Point                    | -12            |         | °C       |                 |
| ASTM D6417    | Volatility @ 700F             | 0.6            |         | area %   | 7.0             |
| ASTM D6045    | ASTM Color                    | L0.5           |         |          | 0.5             |
| ASTM D6304    | Water                         | 28             |         | ppm_w    | 50              |
| ASTM D1401 *  | Water Sep., emul              | 0              |         | mL       |                 |
| ASTM D1401 *  | Water Sep., sep. time         | 5              |         | min      |                 |
| UV Correl. ** | Saturates                     | 100            |         | weight % | 99.0            |
| ASTM D5293    | Viscosity, apparent @ -20C    | 2725           |         | cP       | 2800            |
| ASTM D5800    | Evaporation Loss, Proc B      | 8.1            |         | mass %   | 12.0            |
| ASTM D6045    | Saybolt Color                 | +30            |         |          |                 |
| ASTM D7213    | 0.5 % weight (IBP)            | 695            |         | °F       |                 |
| ASTM D7213    | 05 % weight                   | 741            |         | °F       |                 |
| ASTM D7213    | 10 % weight                   | 759.5          |         | °F       |                 |
| ASTM D7213    | 20 % weight                   | 783            |         | °F       |                 |
| ASTM D7213    | 30 % weight                   | 802            |         | °F       |                 |
| ASTM D7213    | 40 % weight                   | 820            |         | °F       |                 |
| ASTM D7213    | 50 % weight                   | 837            |         | °F       |                 |
| ASTM D7213    | 60 % weight                   | 854            |         | °F       |                 |
| ASTM D7213    | 70 % weight                   | 873            |         | °F       |                 |
| ASTM D7213    | 80 % weight                   | 892            |         | °F       |                 |
| ASTM D7213    | 90 % weight                   | 917.2          |         | °F       |                 |
| ASTM D7213    | 95 % weight                   | 936            |         | °F       |                 |
| ASTM D7213    | 99.5 % weight (FBP)           | 981            |         | °F       |                 |
| UV Correl. ** | Aromatics                     | <1             |         | weight % |                 |

Seller makes no warranty as to the merchantability or fitness of this product for any particular use including, but not limited to, the production of white mineral oils or other mineral oils. Section 11 and 19.3 of Phillips 66 Company's Base Oil General Terms and Conditions for Base Oil Sales shall govern in all respects.

\*Quarterly Analysis

\*\*Saturates = 100 - Aromatics (from in-house UV/HPLC correlation calc.)

\*\*\*Splash Blend formulations have no validated result only min/max ranges

MAP 12-21-23

Excel Paralubes  
2800 Old Spanish Trail  
P.O. Box 850  
Westlake, LA 70669