

# QUALITY CONTROL LABORATORY

## Certificate of analysis

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|                                |                                   |              |                |
|--------------------------------|-----------------------------------|--------------|----------------|
| Certificate of Analysis number | LS-24-1127                        | Product Code | Miller Oils    |
| Sample Received Date:          | 8/29/2024                         |              |                |
| Product Name                   | Trident Professional 5W-30 dexos2 | Batch Number | 15924374223    |
|                                |                                   | Date of Test | 8/29/2024      |
| <b>CHARACTERISTICS</b>         |                                   |              |                |
| <b>Test</b>                    | <b>Method</b>                     | <b>Units</b> | <b>Result</b>  |
| Appearance                     | Visual                            | -            | Bright & Clear |
| Color                          | ASTM D1500                        | -            | L2.0           |
| Kinematic viscosity at 100 °C  | ASTM D445                         | cSt          | 11.76          |
| Kinematic viscosity at 40 °C   | ASTM D445                         | cSt          | 70.88          |
| Density at 15 °C               | ASTM D4052                        | g/ml         | 0.8531         |
| Viscosity index                | ASTM D2270                        | -            | 162            |
| Low Temperature Cranking       | ASTM D5293                        | mPa.S        | 6163           |
| Viscosity at -30C              |                                   |              |                |
| Noack                          | ASTM D5800                        | % mass       | 8.71           |
| Flash Point (COC)              | ASTM D92                          | °C           | 236            |
| Pour Point                     | ASTM D97                          | °C           | -42            |
| Base Number                    | ASTM D2896                        | mg KOH/g     | 8.93           |
| Sulfur                         | ASTM 5354                         | % mass       | 0.273          |
| Nitrogen                       | ASTM D5762                        | % mass       | 0.13           |
| Sulphated Ash                  | ASTM D874                         | % mass       | 0.7797         |
| Calcium                        | ASTM D5185                        | % mass       | 0.136          |
| Magnesium                      | ASTM D5185                        | % mass       | 0.0346         |
| Phosphorus                     | ASTM D5185                        | % mass       | 0.079          |
| Zinc                           | ASTM D5185                        | % mass       | 0.089          |
| Boron                          | ASTM D5185                        | % mass       | 0.003          |
| Moly                           | ASTM D5185                        | % mass       | 0              |
| HTHS                           | ASTM D4683                        | cP           | 4.304          |
| SSI 30cycle                    | ASTM D6278                        | cSt          | 10.92          |
| Foaming Tendency               |                                   |              |                |
| Sequence I Tend/Stab           | ASTM D892                         | ml/ml        | 10/0           |
| Sequence II Tend/Stab          | ASTM D892                         | ml/ml        | 20/0           |
| Sequence III Tend/Stab         | ASTM D892                         | ml/ml        | 10/0           |
|                                |                                   |              |                |

**Issued By:** Lab Chemist

**Date:** 8/29/2024