

Machine Id

CATERPILLAR 92-39

Component

Diesel Engine

PETRO CANADA DURON UHP 5W40 (--- GAL)

| PETRO CANADA DURON UNP | · · · · · · · · · · · · · · · · · · · | ^/ | | | | | |
|---|---------------------------------------|----------|---------------|-----------|-------------|-------------|----------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| | Sample Number | | Client Info | | PC0083272 | PC0066973 | |
| Resample at the next service interval to monitor. | Sample Date | | Client Info | | 21 Jun 2024 | 22 Jun 2023 | |
| | Machine Age | hrs | Client Info | | 4428 | 4217 | |
| | Oil Age | hrs | Client Info | | 211 | 204 | |
| | Filter Age | hrs | Client Info | | 211 | 204 | |
| | Oil Changed | | Client Info | | Changed | Changed | |
| | Filter Changed | | Client Info | | Changed | Changed | |
| | Sample Status | | | | NORMAL | NORMAL | |
| WEAR | Iron | ppm | ASTM D5185(m) | >100 | 6 | 5 | |
| All component wear rates are normal. | Chromium | ppm | ASTM D5185(m) | | 0 | 0 | |
| | Nickel | ppm | ASTM D5185(m) | | <1 | 0 | |
| | Titanium | ppm | ASTM D5185(m) | | 0 | 0 | |
| | Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | |
| | Aluminum | ppm | ASTM D5185(m) | | 2 | 2 | |
| | Lead | ppm | ASTM D5185(m) | >40 | 0 | <1 | |
| | Copper | ppm | ASTM D5185(m) | >330 | <1 | <1 | |
| | Tin | ppm | ASTM D5185(m) | >15 | 0 | 0 | |
| | Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | |
| | White Metal | scalar | Visual* | NONE | VLITE | | |
| | Yellow Metal | scalar | Visual* | NONE | NONE | | |
| CONTAMINATION | Silicon | nnm | ASTM D5185(m) | >25 | 2 | 2 | |
| CONTAMINATION | Potassium | ppm | ASTM D5185(m) | >20 | 1 | <1 | |
| There is no indication of any contamination in the oil. | Fuel | ppm | WC Method | | <1.0 | <1.0 | |
| | Water | | WC Method | | NEG | NEG | |
| | Glycol | | WC Method | 70.L | NEG | NEG | |
| | Soot % | % | ASTM D7844* | >3 | 0 | 0 | |
| | Nitration | Abs/cm | ASTM D7624* | >20 | 7.8 | 7.6 | |
| | Sulfation | Abs/.1mm | ASTM D7415* | >30 | 20.1 | 20.0 | |
| | Silt | scalar | Visual* | NONE | NONE | | |
| | Debris | scalar | Visual* | NONE | NONE | | |
| | Sand/Dirt | scalar | Visual* | NONE | NONE | | |
| | Appearance | scalar | Visual* | NORML | NORML | | |
| | Odor | scalar | Visual* | NORML | NORML | NORML | |
| | Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | |
| FLUID CONDITION | Sodium | nnm | ASTM D5185(m) | | 6 | 5 | |
| FEUID CONDITION | Boron | ppm | ASTM D5185(m) | 65 | 50 | 50 | |
| The condition of the oil is acceptable for the time in service. | Barium | ppm | ASTM D5185(m) | | 0 | 0 | |
| | Molybdenum | ppm | ASTM D5185(m) | | 48 | 41 | |
| | Manganese | ppm | ASTM D5185(m) | | 0 | 0 | |
| | Magnesium | ppm | ASTM D5185(m) | | 854 | 793 | |
| | Calcium | ppm | ASTM D5185(m) | | 1097 | 1247 | |
| | Phosphorus | ppm | ASTM D5185(m) | | 958 | 1093 | |
| | Zinc | ppm | ASTM D5185(m) | 1260 | 1137 | 1163 | |
| | Sulfur | ppm | ASTM D5185(m) | 3000 | 2777 | 2982 | |
| | Oxidation | Abs/.1mm | ASTM D7414* | >25 | 18.0 | 17.4 | |
| | Visc @ 40°C | cSt | ASTM D7279(m) | 95.1 | 90.1 | 91.9 | |
| | Visc @ 100°C | cSt | ASTM D7279(m) | | 14.4 | 14.7 | |
| | Viscosity Index (VI) | Scale | ASTM D2270* | 169 | 166 | 167 | |





CALA ISO 17025:2017 Accredited Laboratory

Report Id: NELSWI [WCAMIS] 02643675 (Generated: 06/24/2024 15:36:35) Rev: 1

Laboratory Sample No.

: PC0083272 Lab Number : 02643675

Unique Number : 5801214

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

Validity of results and interpretation are based on the sample and information as supplied.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 24 Jun 2024 **Tested** Diagnosed

: 24 Jun 2024 : 24 Jun 2024 - Wes Davis

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