



OIL ANALYSIS REPORT

| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Area
52000 series
Machine Id
Navistar 52833
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0844350 | WC0854784 | WC0813036 |
| Sample Date | | Client Info | | 20 Feb 2024 | 27 Sep 2023 | 28 Apr 2023 |
| Machine Age | mls | Client Info | | 339846 | 315394 | 285416 |
| Oil Age | mls | Client Info | | 24452 | 29978 | 27105 |
| Filter Age | mls | Client Info | | 24452 | 29978 | 27105 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >90 | 24 | 23 | 39 |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | 1 | 1 |
| Nickel | ppm | ASTM D5185(m) | >2 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 9 | 8 | 13 |
| Lead | ppm | ASTM D5185(m) | >40 | 2 | 4 | 2 |
| Copper | ppm | ASTM D5185(m) | >330 | 2 | 2 | 3 |
| Tin | ppm | ASTM D5185(m) | >15 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

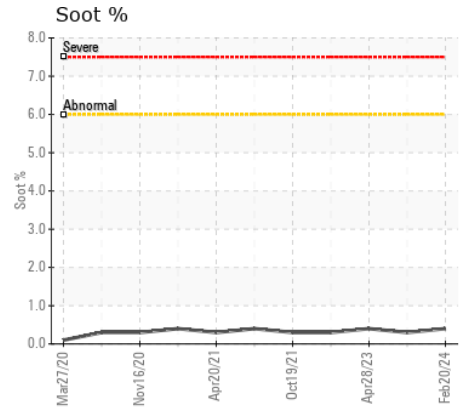
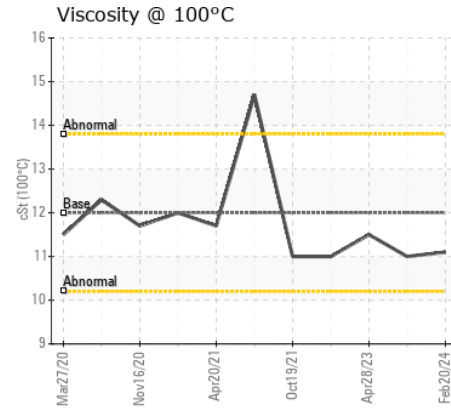
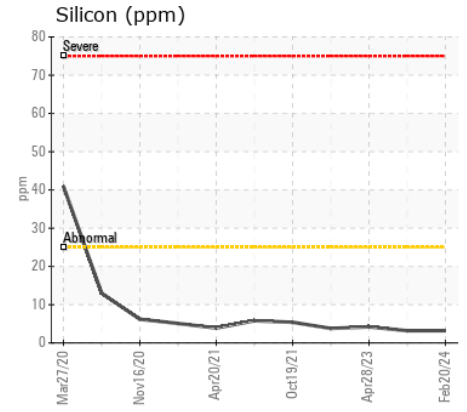
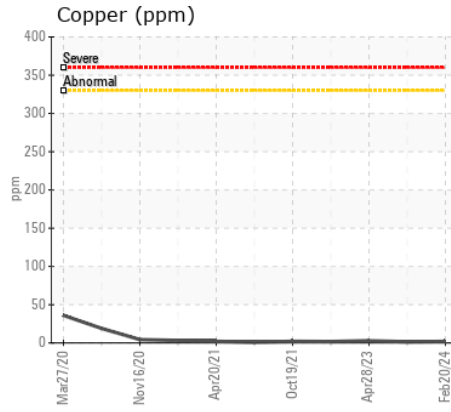
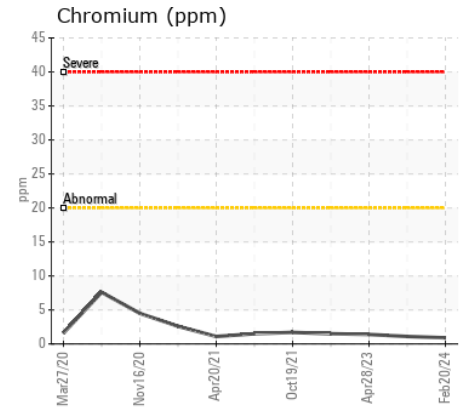
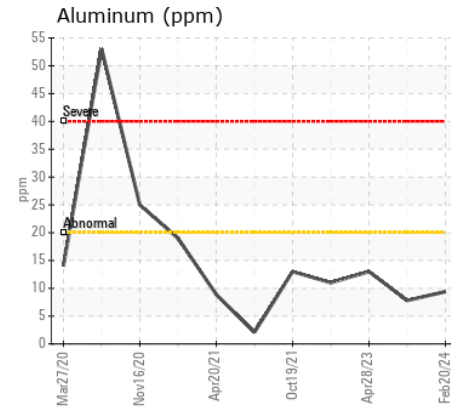
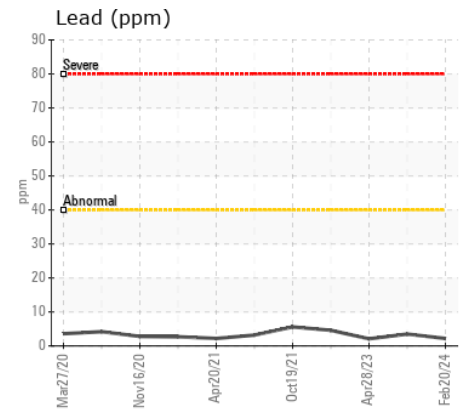
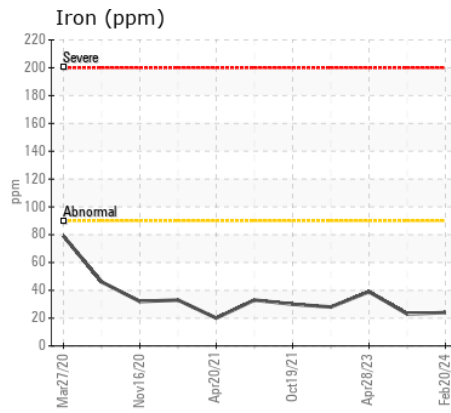
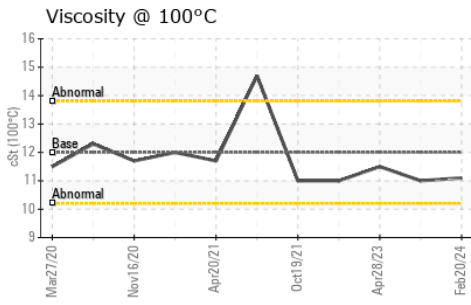
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >25 | 3 | 3 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | 3 | 5 | 2 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | 0.0 | NEG |
| Soot % | % | ASTM D7844* | >6 | 0.4 | 0.3 | 0.4 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 9.3 | 9.7 | 10.5 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 19.4 | 20.8 | 24.7 |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|--------------|----------|---------------|-------|-------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 2 | 2 | 2 |
| Boron | ppm | ASTM D5185(m) | 2 | 4 | 7 | 74 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 50 | 60 | 55 | 7 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 950 | 955 | 870 | 110 |
| Calcium | ppm | ASTM D5185(m) | 1050 | 1087 | 1224 | 2125 |
| Phosphorus | ppm | ASTM D5185(m) | 995 | 1031 | 1028 | 1029 |
| Zinc | ppm | ASTM D5185(m) | 1180 | 1185 | 1227 | 1135 |
| Sulfur | ppm | ASTM D5185(m) | 2600 | 2779 | 2622 | 2960 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 15.5 | 16.4 | 19.0 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 12.00 | 11.1 | 11.0 | 11.5 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0844350 **Received** : 29 Feb 2024
Lab Number : 02618913 **Tested** : 29 Feb 2024
Unique Number : 5736023 **Diagnosed** : 29 Feb 2024 - Wes Davis
Test Package : MOB 1

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.