



OIL ANALYSIS REPORT

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

Area

[142229]

Machine Id

DORMAN WELLINGTON ST PS

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number | | Client Info | | WC0919648 | WC0498290 | WC0449637 |
| Sample Date | | Client Info | | 02 Apr 2024 | 21 Apr 2021 | 31 Mar 2020 |
| Machine Age | hrs | Client Info | | 127 | 785 | 42 |
| Oil Age | hrs | Client Info | | 0 | 80 | 0 |
| Filter Age | hrs | Client Info | | 0 | 80 | 0 |
| Oil Changed | | Client Info | | Not Changed | Not Changed | Not Changed |
| Filter Changed | | Client Info | | Not Changed | Not Changed | Not Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|----------|-----|---------------|-----|----|----|----|
| Iron | ppm | ASTM D5185(m) | >80 | 18 | 23 | 10 |
| Chromium | ppm | ASTM D5185(m) | >6 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 3 | 2 | 2 |
| Lead | ppm | ASTM D5185(m) | >95 | 3 | 3 | 2 |
| Copper | ppm | ASTM D5185(m) | >85 | 4 | 3 | 2 |
| Tin | ppm | ASTM D5185(m) | >9 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

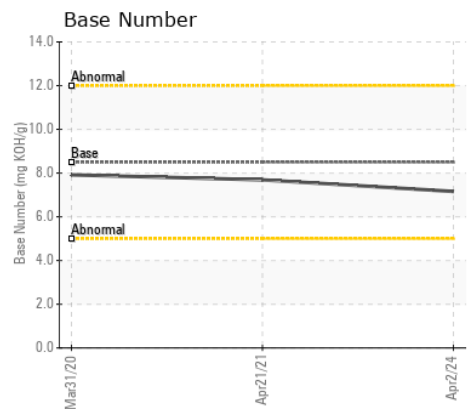
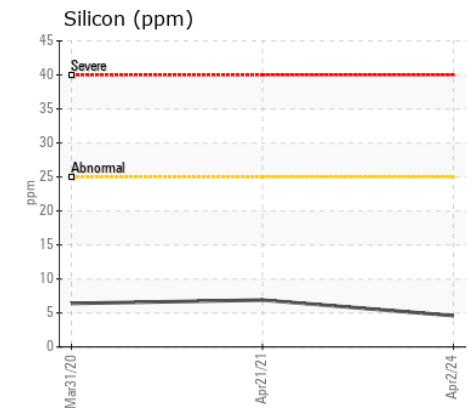
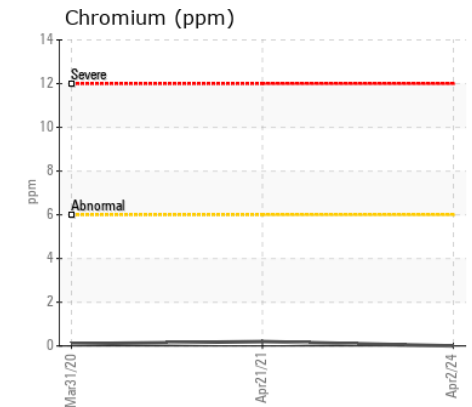
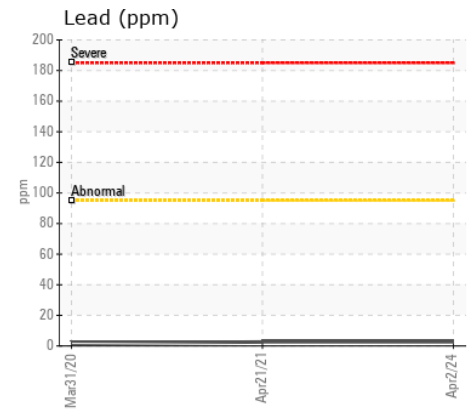
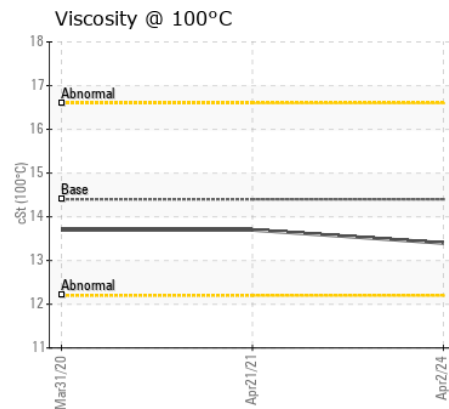
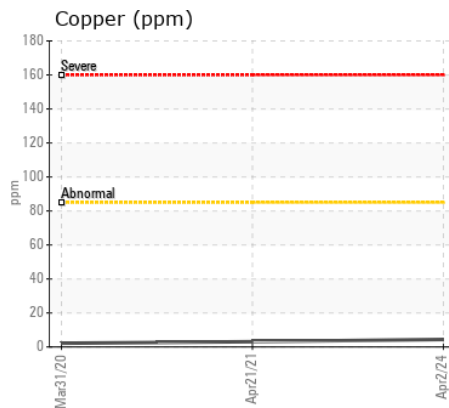
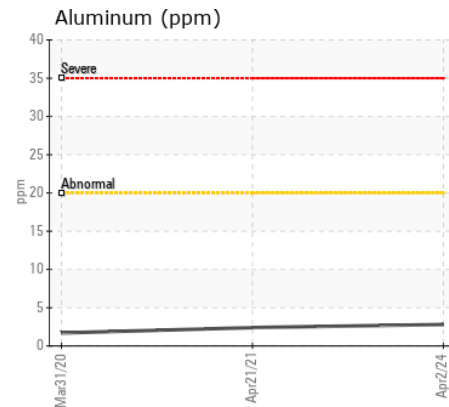
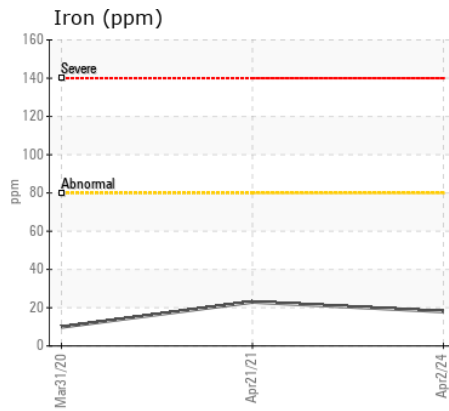
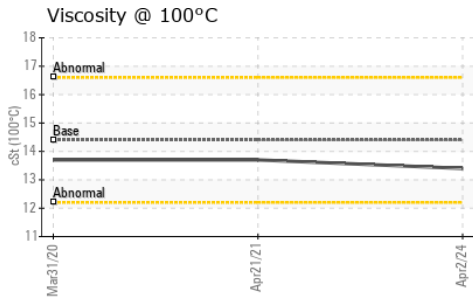
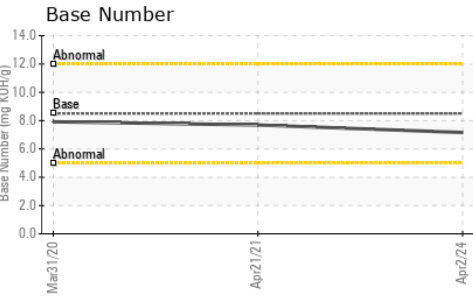
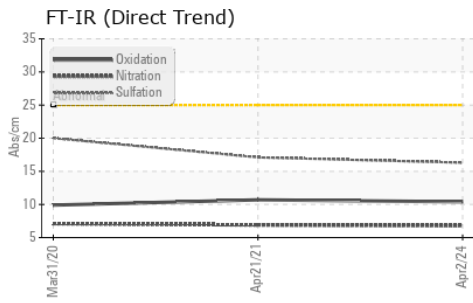
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|------|------|------|
| Silicon | ppm | ASTM D5185(m) | >25 | 5 | 7 | 6 |
| Potassium | ppm | ASTM D5185(m) | >20 | 6 | 7 | 7 |
| Fuel | | WC Method | >4.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | | 0 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 6.8 | 6.9 | 7.1 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 16.3 | 17.1 | 20.0 |
| Emulsified Water | scalar | Visual* | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|---------------|------|------|------|------|
| Sodium | ppm | ASTM D5185(m) | >158 | 4 | 4 | 2 |
| Boron | ppm | ASTM D5185(m) | 250 | 20 | 18 | 19 |
| Barium | ppm | ASTM D5185(m) | 10 | <1 | <1 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | 100 | 14 | 8 | 8 |
| Manganese | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 450 | 22 | 21 | 22 |
| Calcium | ppm | ASTM D5185(m) | 3000 | 2327 | 2384 | 2447 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 826 | 845 | 915 |
| Zinc | ppm | ASTM D5185(m) | 1350 | 980 | 1032 | 1047 |
| Sulfur | ppm | ASTM D5185(m) | 4250 | 2834 | 3196 | 3292 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 10.4 | 10.7 | 9.9 |
| Base Number (BN) | mg KOH/g | ASTM D2896* | 8.5 | 7.16 | 7.69 | 7.92 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 14.4 | 13.4 | 13.7 | 13.7 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0919648 **Received** : 15 Apr 2024
Lab Number : 02628678 **Tested** : 16 Apr 2024
Unique Number : 5761810 **Diagnosed** : 16 Apr 2024 - Wes Davis
Test Package : MOB 2

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.

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