B POWER Station Products

OIL ANALYSIS REPORT

[85482] 1720 ELLESMERE RD SCARBOROUGH TTC SUBWAY TTC SUBWAY

Rear Diesel Engine

ESSO XD-3 EXTRA 15W40 (10 LTR)

| REC | OMM | ENDA | |
|-----|-----|-------------|--|
| | | | |

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

| | -1 |
|--|-------|
| | 1 = 4 |
| | |

Area

Metal levels are typical for a new component breaking in.

CONTAMINATION

Light fuel dilution occurring.

FLUID CONDITION

Zinc ppm levels are abnormally low. Visc @ 100° C is abnormally low. Fuel is present in the oil and is lowering the viscosity.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|---------------|-----------|--------------|----------|----------|
| Sample Number | | Client Info | | PN0006104 | | |
| Sample Date | | Client Info | | 22 Apr 2024 | | |
| Machine Age | hrs | Client Info | | 658 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Filter Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | Changed | | |
| Filter Changed | | Client Info | | Not Changd | | |
| Sample Status | | | | ABNORMAL | | |
| | | | 400 | • | | |
| Iron | ppm | ASTM D5185(m) | >100 | 3 | | |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | | |
| Nickel | ppm | ASTM D5185(m) | >4 | 0 | | |
| Titanium | ppm | ASTM D5185(m) | 0 | 0 | | |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185(m) | >20 | 2 | | |
| Lead | ppm | ASTM D5185(m) | >40 | <1 | | |
| Copper | ppm | ASTM D5185(m) | >330 | 2 | | |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | | |
| Silicon | ppm | ASTM D5185(m) | >25 | 11 | | |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | | |
| Fuel | % | ASTM D7593* | >5 | A 2.5 | | |
| Water | | WC Method | >0.2 | NEG | | |
| Glycol | | WC Method | | NEG | | |
| Soot % | % | ASTM D7844* | >3 | 0 | | |
| Nitration | Abs/cm | ASTM D7624* | >20 | 5.2 | | |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 15.3 | | |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | | |
| Sodium | ppm | ASTM D5185(m) | >192 | 4 | | |
| Boron | ppm | ASTM D5185(m) | | 118 | | |
| Barium | ppm | ASTM D5185(m) | | 0 | | |
| Molybdenum | ppm | ASTM D5185(m) | | 71 | | |
| Manganese | ppm | ASTM D5185(m) | | <1 | | |
| Magnesium | ppm | ASTM D5185(m) | | 457 | | |
| Calcium | ppm | ASTM D5185(m) | 3780 | 1226 | | |
| Phosphorus | ppm | ASTM D5185(m) | 1370 | 709 | | |
| Zinc | ppm | ASTM D5185(m) | 1500 | A 790 | | |
| Sulfur | ppm | ASTM D5185(m) | 3800 | 2409 | | |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 9.0 | | |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 4 9.5 | | |

Contact/Location: Brett Kinkley - POWMIS Page 1 of 2



