



OIL ANALYSIS REPORT

| | |
|-----------------|-----------------|
| WEAR | NORMAL |
| CONTAMINATION | SEVERE |
| FLUID CONDITION | ABNORMAL |

Machine Id
INTERNATIONAL 7600 A-366
 Component
Diesel Engine
 Fluid
DURAMAX 15W40 (40 QTS)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

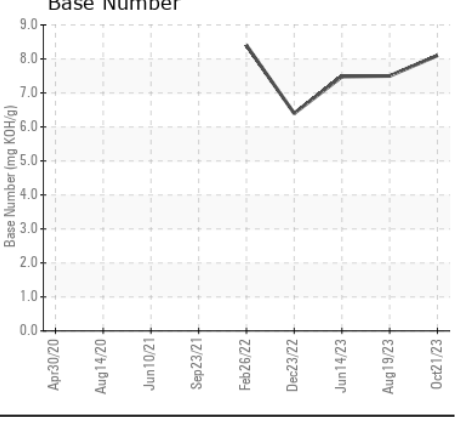
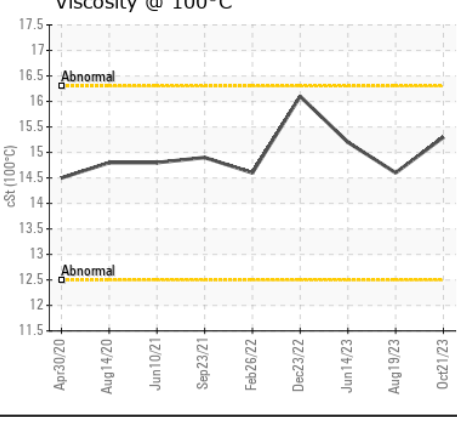
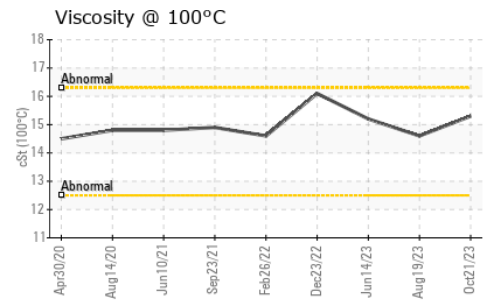
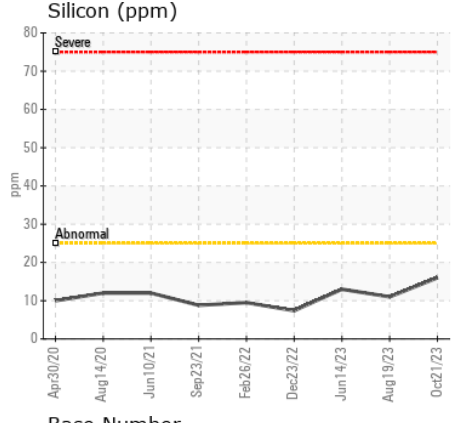
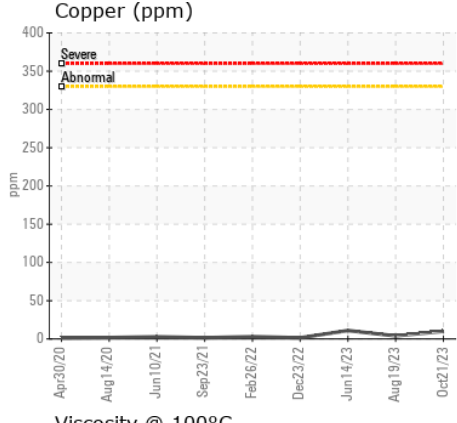
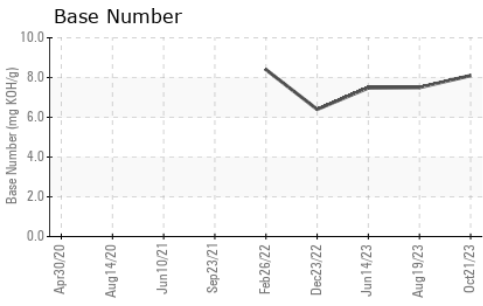
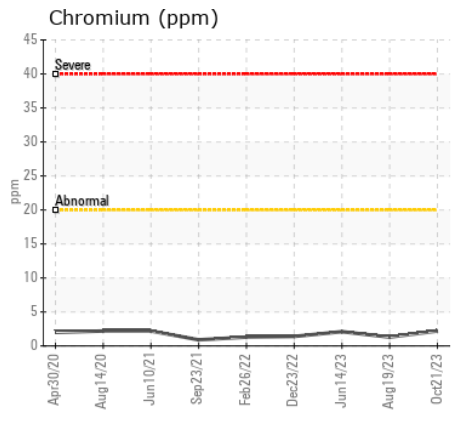
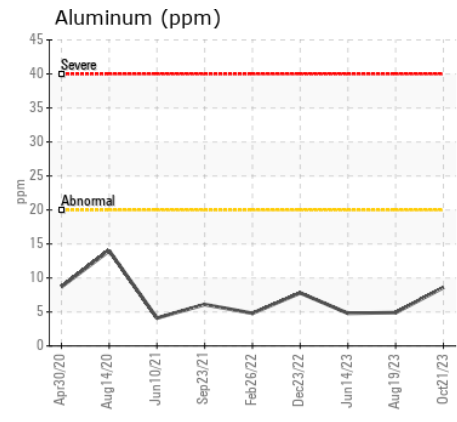
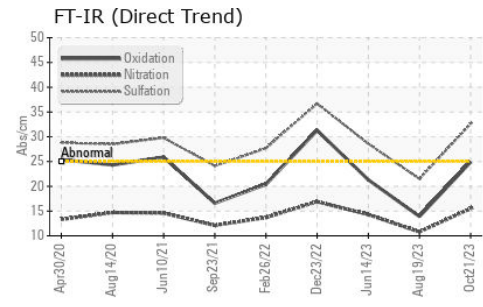
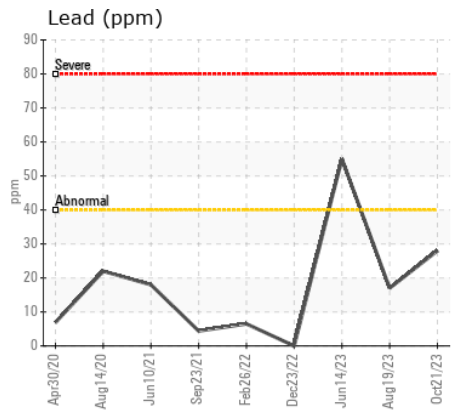
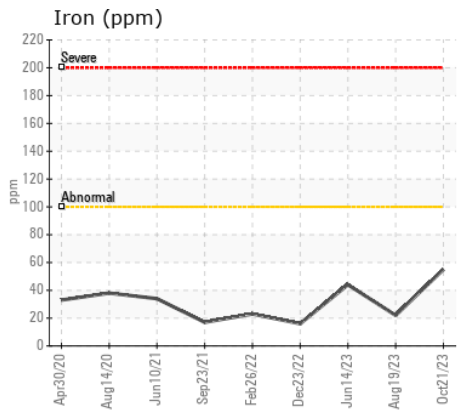
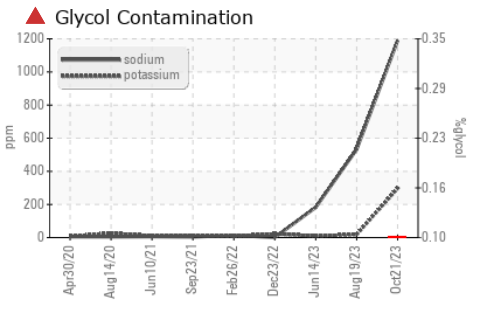
CONTAMINATION

Sodium and/or potassium levels are high. Test for glycol is positive.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | DC0030806 | DC0022575 | DC0024208 |
| Sample Date | | Client Info | | 21 Oct 2023 | 19 Aug 2023 | 14 Jun 2023 |
| Machine Age | hrs | Client Info | | 19380 | 19098 | 18749 |
| Oil Age | hrs | Client Info | | 631 | 348 | 800 |
| Filter Age | hrs | Client Info | | 631 | 348 | 800 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | SEVERE | ABNORMAL | ABNORMAL |
| Iron | ppm | ASTM D5185m | >100 | 55 | 22 | 44 |
| Chromium | ppm | ASTM D5185m | >20 | 2 | 1 | 2 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | 1 | 2 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 9 | 5 | 5 |
| Lead | ppm | ASTM D5185m | >40 | 28 | 17 | ▲ 55 |
| Copper | ppm | ASTM D5185m | >330 | 10 | 4 | 11 |
| Tin | ppm | ASTM D5185m | >15 | 2 | <1 | 2 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >25 | 16 | 11 | 13 |
| Potassium | ppm | ASTM D5185m | >20 | ▲ 298 | 18 | 10 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | % | *ASTM D2982 | | ▲ 0.10 | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 1.1 | 0.6 | 1.4 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 15.5 | 10.8 | 14.3 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 32.6 | 21.5 | 28.6 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185m | | ▲ 1190 | ▲ 533 | ▲ 183 |
| Boron | ppm | ASTM D5185m | | 9 | <1 | <1 |
| Barium | ppm | ASTM D5185m | | <1 | 12 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 149 | 46 | 17 |
| Manganese | ppm | ASTM D5185m | | 1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | | 104 | 50 | 66 |
| Calcium | ppm | ASTM D5185m | | 2757 | 2317 | 2924 |
| Phosphorus | ppm | ASTM D5185m | | 1061 | 931 | 1082 |
| Zinc | ppm | ASTM D5185m | | 1249 | 1120 | 1380 |
| Sulfur | ppm | ASTM D5185m | | 4952 | 3741 | 5050 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 24.9 | 13.9 | 21.3 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 8.1 | 7.5 | 7.48 |
| Visc @ 100°C | cSt | ASTM D445 | | 15.3 | 14.6 | 15.2 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0030806 **Received** : 11 Apr 2024
Lab Number : 06146471 **Tested** : 16 Apr 2024
Unique Number : 10976549 **Diagnosed** : 16 Apr 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: Glycol, TBN)

THOMAS BENNETT & HUNTER INC
 70 JOHN ST
 WESTMINSTER, MD
 US 21157
 Contact: JOE STEPHAN
 jstephan@tbhconcrete.com
 T: (410)848-9030
 F: (410)848-9032

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)