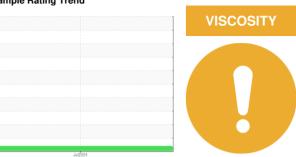


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

THOMAS 8076

Diesel Engine

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

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

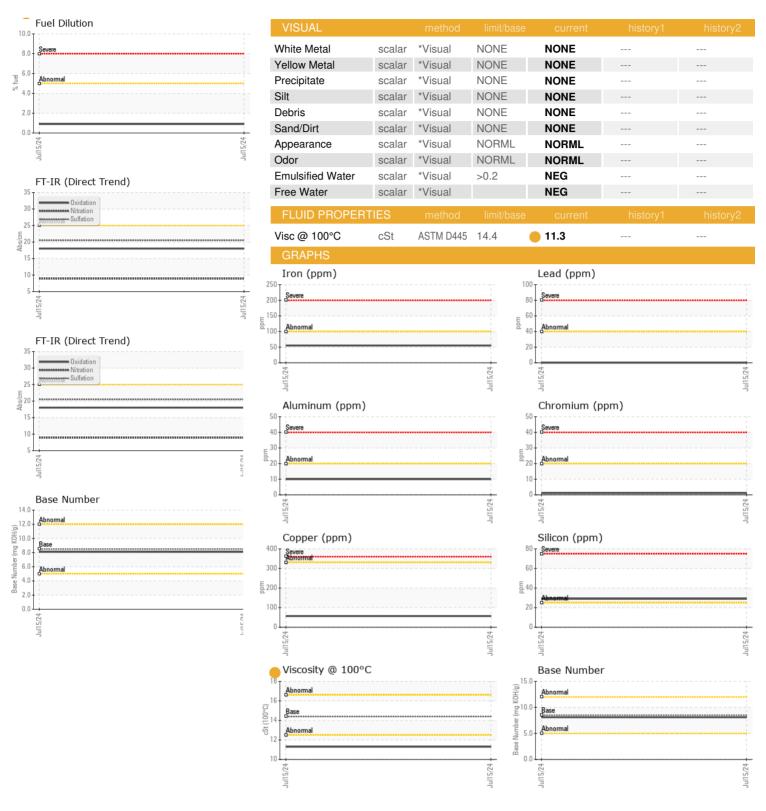
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

| | | | | Jul2024 | | |
|------------------|----------|-------------|------------|-------------|----------|----------|
| | | | | | | |
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0905956 | | |
| Sample Date | | Client Info | | 15 Jul 2024 | | |
| Machine Age | mls | Client Info | | 3212 | | |
| Oil Age | mls | Client Info | | 0 | | |
| Oil Changed | | Client Info | | Not Changd | | |
| Sample Status | | | | ATTENTION | | |
| CONTAMINATION | ٧ | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | | |
| Glycol | | WC Method | | NEG | | |
| • | | | 11 11 11 | | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | 55 | | |
| Chromium | ppm | ASTM D5185m | >20 | 1 | | |
| Nickel | ppm | ASTM D5185m | >4 | 0 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 10 | | |
| Lead | ppm | ASTM D5185m | >40 | 0 | | |
| Copper | ppm | ASTM D5185m | >330 | 57 | | |
| Tin | ppm | ASTM D5185m | >15 | <1 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 250 | 42 | | |
| Barium | ppm | ASTM D5185m | 10 | 4 | | |
| Molybdenum | ppm | ASTM D5185m | 100 | 43 | | |
| Manganese | ppm | ASTM D5185m | | 5 | | |
| Magnesium | ppm | ASTM D5185m | 450 | 755 | | |
| Calcium | ppm | ASTM D5185m | 3000 | 1119 | | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 726 | | |
| Zinc | ppm | ASTM D5185m | 1350 | 836 | | |
| Sulfur | ppm | ASTM D5185m | 4250 | 2599 | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 29 | | |
| Sodium | ppm | ASTM D5185m | >158 | 7 | | |
| Potassium | ppm | ASTM D5185m | >20 | 26 | | |
| Fuel | % | ASTM D3524 | | 0.9 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.3 | | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.9 | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.5 | | |
| FLUID DEGRADA | | method | limit/base | current | history1 | history2 |
| | | | | | | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.0 | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 8.1 | | |



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: WC0905956 Lab Number : 06239671 Unique Number : 11128505

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 17 Jul 2024 : 19 Jul 2024 Diagnosed Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

: 19 Jul 2024 - Sean Felton

GOLDSBORO, NC US 27530 Contact: BRANDON BRIGGS brandonbriggs@wcps.org

1603 SALEM CHURCH RD

WAYNE CO SCHOOL BUS GARAGE

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)

Contact/Location: BRANDON BRIGGS - WAYGOL

T:

F: