

OIL ANALYSIS REPORT

Sample Rating Trend



Area (43480UA)

834028 Natural Gas Engine Fluid

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

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

A Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

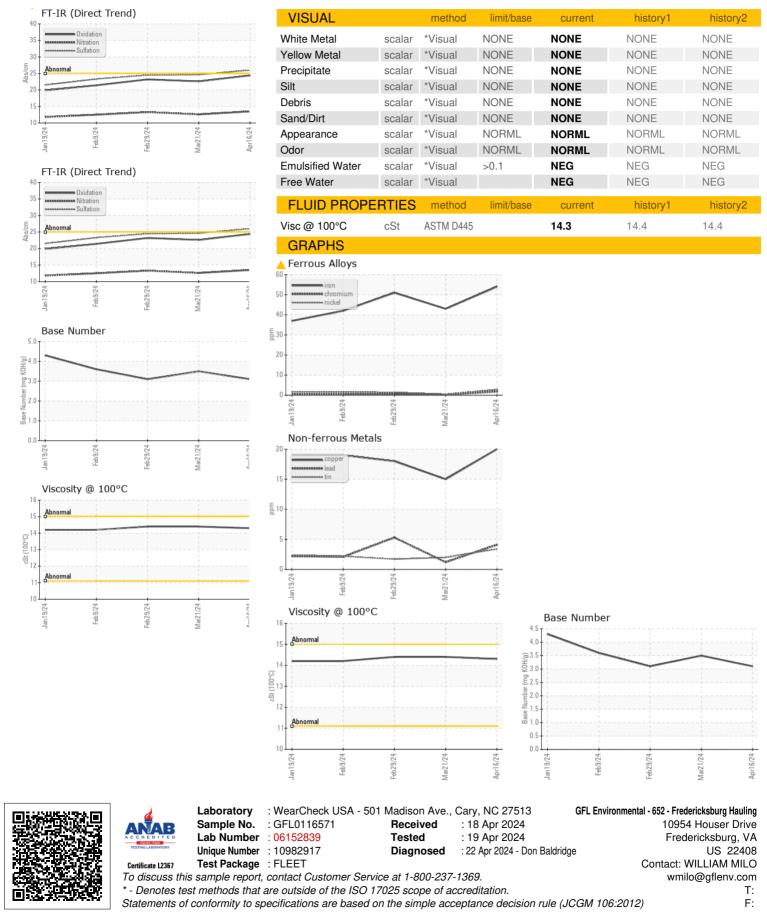
Fluid Condition

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

| SAMPLE INFORM | <u>IATION</u> | method | limit/base | current | history1 | history2 |
|------------------|---------------|-------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0116571 | GFL0111815 | GFL0111833 |
| Sample Date | | Client Info | | 16 Apr 2024 | 21 Mar 2024 | 29 Feb 2024 |
| Machine Age | hrs | Client Info | | 1012 | 841 | 695 |
| Oil Age | hrs | Client Info | | 171 | 841 | 695 |
| Oil Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Sample Status | | | | ABNORMAL | NORMAL | NORMAL |
| CONTAMINATI | ON | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| WEAR METALS | 6 | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | <u> </u> | 43 | 51 |
| Chromium | ppm | ASTM D5185m | >4 | 2 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | 3 | <1 | 1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | <1 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 4 | 3 | 3 |
| Lead | ppm | ASTM D5185m | >30 | 4 | 1 | 5 |
| Copper | ppm | ASTM D5185m | >35 | 20 | 15 | 18 |
| Tin | ppm | ASTM D5185m | >4 | 3 | 2 | 2 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 3 | 7 | 3 |
| Barium | ppm | ASTM D5185m | | 4 | 2 | 4 |
| Molybdenum | ppm | ASTM D5185m | | 58 | 53 | 55 |
| Manganese | ppm | ASTM D5185m | | 15 | 12 | 14 |
| Magnesium | ppm | ASTM D5185m | | 789 | 786 | 926 |
| Calcium | ppm | ASTM D5185m | | 1334 | 1259 | 1332 |
| Phosphorus | ppm | ASTM D5185m | | 802 | 667 | 760 |
| Zinc | ppm | ASTM D5185m | | 957 | 907 | 946 |
| Sulfur | ppm | ASTM D5185m | | 2650 | 2492 | 2433 |
| CONTAMINAN | ΓS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >+100 | 31 | 27 | 33 |
| Sodium | ppm | ASTM D5185m | | 5 | 6 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 22 | 8 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | | 0 | 0 | 0 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 13.5 | 12.6 | 13.3 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 26.0 | 24.6 | 24.5 |
| FLUID DEGRAD | ATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 24.4 | 22.6 | 23.2 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 3.1 | 3.5 | 3.1 |
| | 9.0.0 | 2 | | | | |



OIL ANALYSIS REPORT



Report Id: GFL652 [WUSCAR] 06152839 (Generated: 04/22/2024 22:07:41) Rev: 1

Submitted By: TECHNICIAN ACCOUNT