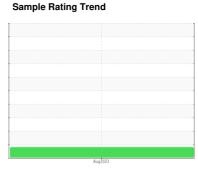


OIL ANALYSIS REPORT



WEAR



Machine Id 409 Component

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

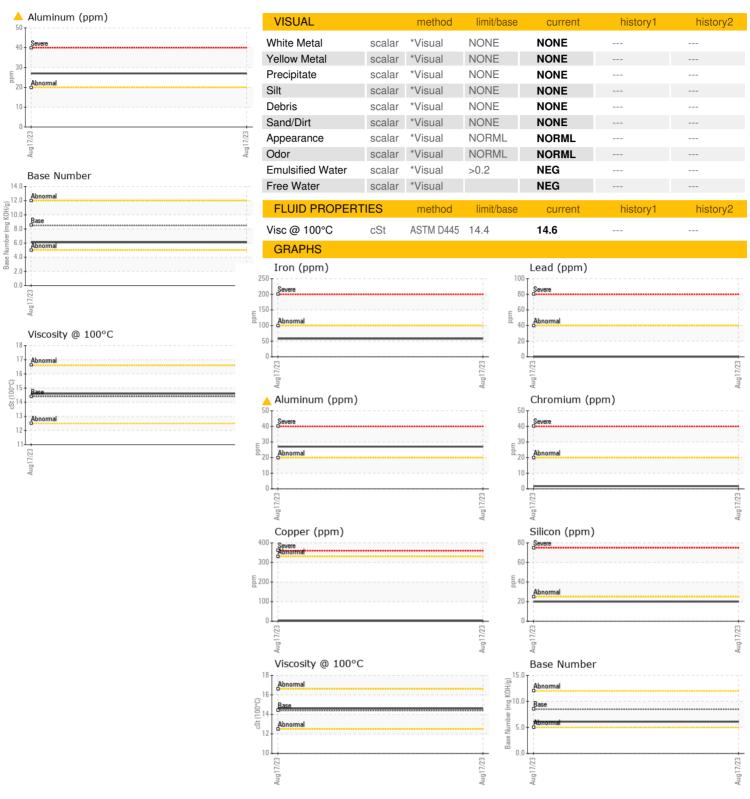
Fluid Condition

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.

| | | | | Aug2023 | | |
|------------------|----------|-----------------|------------|-------------|----------|----------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0584566 | | |
| Sample Date | | Client Info | | 17 Aug 2023 | | |
| Machine Age | mls | Client Info | | 125926 | | |
| Oil Age | mls | Client Info | | 11050 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | ABNORMAL | | |
| CONTAMINATION | ٧ | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | | |
| Glycol | | WC Method | | NEG | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | 58 | | |
| Chromium | ppm | ASTM D5185m | >20 | 2 | | |
| Nickel | ppm | ASTM D5185m | >4 | - <1 | | |
| Titanium | ppm | ASTM D5185m | | <1 | | |
| Silver | ppm | ASTM D5185m | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185m | | <u>^</u> 27 | | |
| Lead | ppm | ASTM D5185m | >40 | 0 | | |
| Copper | ppm | ASTM D5185m | | 2 | | |
| Tin | ppm | ASTM D5185m | >15 | 0 | | |
| Vanadium | ppm | ASTM D5185m | 710 | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| | ррпп | | | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 250 | 169 | | |
| Barium | ppm | ASTM D5185m | 10 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 100 | 92 | | |
| Manganese | ppm | ASTM D5185m | | <1 | | |
| Magnesium | ppm | ASTM D5185m | 450 | 414 | | |
| Calcium | ppm | ASTM D5185m | 3000 | 1468 | | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1044 | | |
| Zinc | ppm | ASTM D5185m | 1350 | 1285 | | |
| Sulfur | ppm | ASTM D5185m | 4250 | 3624 | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 20 | | |
| Sodium | ppm | ASTM D5185m | >216 | 0 | | |
| Potassium | ppm | ASTM D5185m | >20 | 6 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 1.2 | | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.5 | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | | 27.8 | | |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 24.7 | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 6.1 | | |
| Dago Hambor (DN) | nig Rong | , to TIVI DE000 | 0.0 | V. 1 | | |



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number Unique Number

+05929398: 10609345

: WC0584566 Test Package : MOB1+

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Aug 2023 Diagnosed : 23 Aug 2023 Diagnostician

: Jonathan Hester

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)

MIDDLESBORO COCA-COLA BOTTLING - MCCB

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US 40965 Contact: TIM GOINS

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