

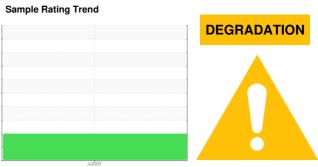
OIL ANALYSIS REPORT



Machine Id MACK GR64B 171 (S/N MO11447)

Diesel Engine

Fluid
PETRO CANADA 15W



DIAGNOSIS

Recommendation

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

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

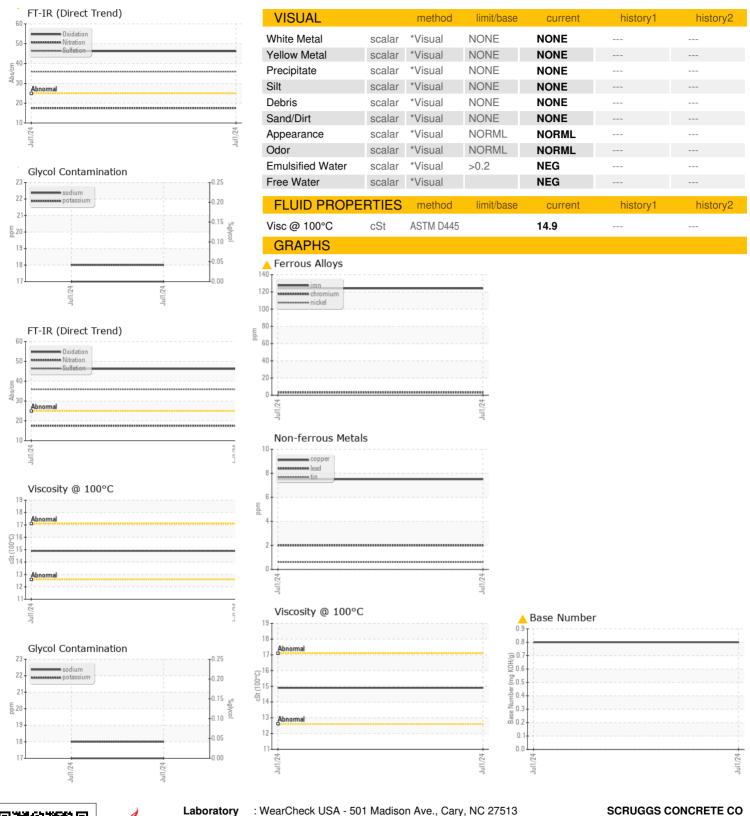
▲ Fluid Condition

The BN level is low. The oil is no longer serviceable.

| l0 (GAL) | | | | Jul2024 | | |
|--|--|--|---------------------------------------|---|----------------------|----------------------|
| SAMPLE INFOR | ΜΔΤΙΩΝ | method | limit/base | current | history1 | history2 |
| | VIATION | | IIIIIIIIIIIII | | | HISTOTYZ |
| Sample Number | | Client Info | | PCA0124972 | | |
| Sample Date | and a | Client Info | | 01 Jul 2024 | | |
| Machine Age | mls | Client Info | | 81307 | | |
| Oil Age Oil Changed | mls | Client Info | | 31804 Changed | | |
| Sample Status | | Client inio | | Changed ABNORMAL | | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | IOIV | WC Method | | <1.0 | | |
| Water | | WC Method | | <1.0 NEG | | |
| WEAR METAL | C | | | - | historyd | hiotom/0 |
| | 5 | method | limit/base | current | history1 | history2 |
| ron | ppm | ASTM D5185m | | <u> </u> | | |
| Chromium | ppm | ASTM D5185m | >20 | 3 | | |
| Nickel | ppm | ASTM D5185m | >5 | 4 | | |
| Titanium | ppm | ASTM D5185m | >2 | 2 | | |
| Silver | ppm | ASTM D5185m | >2 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 8 | | |
| _ead | ppm | ASTM D5185m | >40 | 2 | | |
| Copper | ppm | ASTM D5185m | >330 | 8 | | |
| Γin | ppm | ASTM D5185m | >15 | <1 | | |
| /anadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 13 | | |
| Barium | ppm | ASTM D5185m | | 0 | | |
| Molybdenum | ppm | ASTM D5185m | | 93 | | |
| Manganese | ppm | ASTM D5185m | | 2 | | |
| Magnesium | ppm | ASTM D5185m | | 635 | | |
| Calcium | ppm | ASTM D5185m | | 1579 | | |
| Phosphorus | ppm | ASTM D5185m | | 1016 | | |
| Zinc | ppm | ASTM D5185m | | 1270 | | |
| Sulfur | ppm | ASTM D5185m | | 3033 | | |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| | | | | | | |
| Silicon | ppm | ASTM D5185m | >25 | 10 | | |
| | ppm | ASTM D5185m ASTM D5185m | >25 | 10 17 | | |
| Sodium | | | >25 >20 | | | |
| Sodium Potassium | ppm | ASTM D5185m | | 17 | | |
| Sodium Potassium | ppm ppm | ASTM D5185m ASTM D5185m | | 17 18 | | |
| Sodium Potassium Glycol INFRA-RED | ppm ppm | ASTM D5185m ASTM D5185m *ASTM D2982 | >20 | 17 18 NEG | | |
| Sodium Potassium Glycol INFRA-RED Soot % | ppm ppm % | ASTM D5185m ASTM D5185m *ASTM D2982 method | >20 limit/base >4 | 17 18 NEG current | history1 | history2 |
| Sodium Potassium Glycol INFRA-RED Soot % Nitration | ppm ppm % | ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 | >20 limit/base >4 | 17 18 NEG current | history1 | history2 |
| Sodium Potassium Glycol INFRA-RED Soot % Nitration | ppm ppm % % Abs/cm Abs/.1mm | ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7624 *ASTM D7415 | >20 limit/base >4 >20 | 17 18 NEG current 1.2 17.5 | history1 | history2 |
| Soot % Nitration Sulfation | ppm ppm % % Abs/cm Abs/.1mm | ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7624 *ASTM D7415 | >20 limit/base >4 >20 >30 | 17 18 NEG current 1.2 17.5 35.9 | history1 | history2 |



OIL ANALYSIS REPORT







Certificate 12367

Report Id: SCRVAL [WUSCAR] 06231131 (Generated: 07/10/2024 15:28:15) Rev: 1

Laboratory Sample No.

Lab Number : 06231131 Unique Number : 11114624

: PCA0124972

Received **Tested** Diagnosed Test Package : FLEET (Additional Tests: Glycol)

: 08 Jul 2024 : 10 Jul 2024 : 10 Jul 2024 - Don Baldridge

807 RIVER ST VALDOSTA, GA

US 31601 Contact: D ALTMAN DALTMAN@SCRUGGSCONCRETE.COM

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: D ALTMAN - SCRVAL

T:

F: