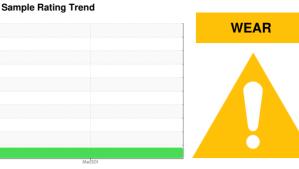


OIL ANALYSIS REPORT







East Chicago Operations LIEBHERR R912 MH-85 (S/N 5007455)

Front Right Tandem

PETRO CANADA TRAXON 80W90 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil

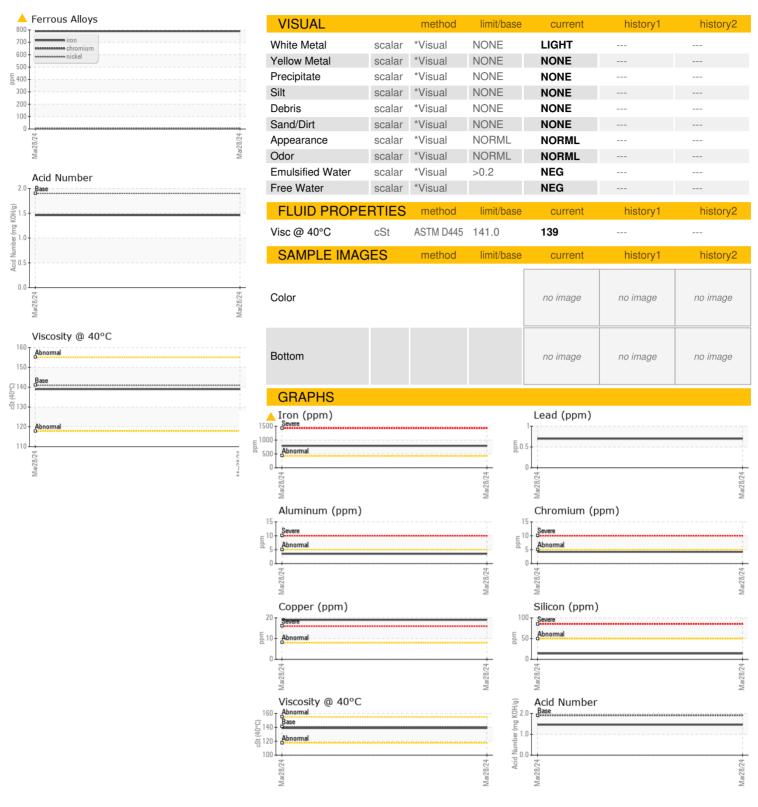
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| XO14 00 W 90 (V | MAL) | | | | | |
|------------------|----------|-------------|------------|--------------|----------|----------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0113784 | | |
| Sample Date | | Client Info | | 28 Mar 2024 | | |
| Machine Age | hrs | Client Info | | 1838 | | |
| Oil Age | hrs | Client Info | | 1838 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | ABNORMAL | | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | | |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >425 | ^ 789 | | |
| Chromium | ppm | ASTM D5185m | >5 | 4 | | |
| Nickel | ppm | ASTM D5185m | >5 | <1 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | | 0 | | |
| Aluminum | ppm | ASTM D5185m | >5 | 4 | | |
| Lead | ppm | ASTM D5185m | | <1 | | |
| Copper | ppm | ASTM D5185m | >8 | 19 | | |
| Tin | ppm | ASTM D5185m | | <1 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 243 | 87 | | |
| Barium | ppm | ASTM D5185m | 1 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | | 0 | | |
| Manganese | ppm | ASTM D5185m | | 7 | | |
| Magnesium | ppm | ASTM D5185m | 2 | 3 | | |
| Calcium | ppm | ASTM D5185m | 6 | 24 | | |
| Phosphorus | ppm | ASTM D5185m | 987 | 1052 | | |
| Zinc | ppm | ASTM D5185m | 1 | 43 | | |
| Sulfur | ppm | ASTM D5185m | 21530 | 23882 | | |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >50 | 14 | | |
| Sodium | ppm | ASTM D5185m | | 11 | | |
| Potassium | ppm | ASTM D5185m | >20 | 2 | | |
| FLUID DEGRAD | DATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.9 | 1.46 | | |



OIL ANALYSIS REPORT





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06140084

: PCA0113784

Unique Number : 10964892

Received : 05 Apr 2024 Tested : 08 Apr 2024

Diagnosed

: 08 Apr 2024 - Don Baldridge

Test Package : MOB 2 Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

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