

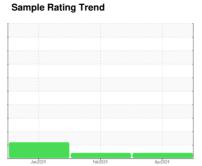
OIL ANALYSIS REPORT



Machine Id CATERPILLAR 374 10561 (S/N TNX10036)

Diesel Engine

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)





Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

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.

| SYN BLEND 15W40 | (GAL) | Ja | 2024 | Feb 2024 Apr 20 | 024 | |
|-----------------|----------|-------------|------------|-----------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0913237 | WC0879306 | WC0879326 |
| Sample Date | | Client Info | | 13 Apr 2024 | 22 Feb 2024 | 04 Jan 2024 |
| Machine Age | hrs | Client Info | | 2705 | 1834 | 918 |
| Oil Age | hrs | Client Info | | 871 | 916 | 918 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | ATTENTION | ATTENTION | ABNORMAL |
| CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <u>2.2</u> |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| ron | ppm | ASTM D5185m | >100 | 66 | 40 | 48 |
| Chromium | ppm | ASTM D5185m | >20 | 2 | 1 | 2 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | 0 | 2 |
| Titanium | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >25 | 17 | 11 | 22 |
| _ead | ppm | ASTM D5185m | >40 | 2 | 2 | 3 |
| Copper | ppm | ASTM D5185m | >330 | 94 | 112 | 559 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 1 | 1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 1 | 3 | 4 | 3 |
| Barium | ppm | ASTM D5185m | 1 | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m | 60 | 88 | 54 | 44 |
| Manganese | ppm | ASTM D5185m | 1 | 0 | <1 | 2 |
| Magnesium | ppm | ASTM D5185m | 1010 | 1369 | 841 | 683 |
| Calcium | ppm | ASTM D5185m | 1070 | 1963 | 1190 | 1507 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1605 | 940 | 942 |
| Zinc | ppm | ASTM D5185m | 1270 | 1932 | 1203 | 1221 |
| Sulfur | ppm | ASTM D5185m | 2060 | 3964 | 2174 | 2607 |
| CONTAMINANT | S | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 10 | 8 | 16 |
| Sodium | ppm | ASTM D5185m | | 3 | 2 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 22 | 11 | 14 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.6 | 0.5 | 0.4 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.5 | 9.6 | 9.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.1 | 21.0 | 22.2 |
| FLUID DEGRAD | ATION | method | limit/base | current | history1 | history2 |
| T LOID DEGITAD | 7111011 | | | Current | | , |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.0 | 18.2 | 21.0 |



OIL ANALYSIS REPORT







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06151769 Unique Number : 10981847

: WC0913237

Received **Tested** Diagnosed

: 17 Apr 2024 : 18 Apr 2024

: 19 Apr 2024 - Don Baldridge

US 28563 Contact: MIKE WYATT mwyatt@traderconstruction.com

PO DRAWER 1578

NEW BERN, NC

TRADER CONSTRUCTION CO.

T: (252)633-1399 F: (252)638-4871

Test Package : CONST (Additional Tests: TBN) Certificate 12367 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)