

Area (66433Z) Walgreens - Tractor [Walgreens - Tractor] 136A624105

Diesel Engine Fluic

PETRO CANADA DURON SHP 10W30 (11

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

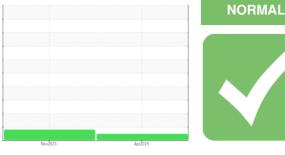
Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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 suitable for further service.

| iAL) | | | Nov2023 | Apr2024 | | | |
|---|--|---|--|---|---|--------------------------|--|
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 | |
| Sample Number | | Client Info | | PCA0122413 | PCA0103682 | | |
| Sample Date | | Client Info | | 01 Apr 2024 | 17 Nov 2023 | | |
| Machine Age | mls | Client Info | | 70943 | 31202 | | |
| Dil Age | mls | Client Info | | 31021 | 31202 | | |
| Oil Changed | | Client Info | | Changed | Changed | | |
| Sample Status | | | | NORMAL | ABNORMAL | | |
| CONTAMINATI | ON | method | limit/base | current | history1 | history2 | |
| ⁼ uel | | WC Method | >5 | <1.0 | <1.0 | | |
| Water | | WC Method | >0.2 | NEG | NEG | | |
| Glycol | | WC Method | | NEG | NEG | | |
| WEAR METALS | S . | method | limit/base | current | history1 | history2 | |
| ron | ppm | ASTM D5185m | >80 | 61 | 50 | | |
| Chromium | ppm | ASTM D5185m | >5 | 4 | 3 | | |
| Nickel | ppm | ASTM D5185m | >2 | 1 | <1 | | |
| Titanium | ppm | ASTM D5185m | | 1 | 0 | | |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >30 | 33 | 85 | | |
| Lead | ppm | ASTM D5185m | >30 | <1 | 4 | | |
| Copper | ppm | ASTM D5185m | >150 | 107 | <u> </u> | | |
| Tin | ppm | ASTM D5185m | >5 | 2 | 2 | | |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | | |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 | |
| Boron | ppm | ASTM D5185m | 2 | 11 | 34 | | |
| Barium | ppm | ASTM D5185m | 0 | 1 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 50 | 52 | 39 | | |
| Manganese | ppm | ASTM D5185m | 0 | 2 | 4 | | |
| Magnesium | ppm | ASTM D5185m | 950 | 800 | 546 | | |
| Calcium | ppm | ASTM D5185m | 1050 | 1393 | 1806 | | |
| Phosphorus | ppm | ASTM D5185m | 995 | 981 | 758 | | |
| Zinc | ppm | ASTM D5185m | 1180 | 1180 | 859 | | |
| Sulfur | ppm | ASTM D5185m | 2600 | 2726 | 1936 | | |
| | | | | | | | |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 | |
| | TS ppm | method ASTM D5185m | limit/base | current 8 | history1 9 | history2 | |
| Silicon | | | | | | | |
| Silicon Sodium | ppm | ASTM D5185m | | 8 | 9 | | |
| Silicon Sodium | ppm ppm | ASTM D5185m ASTM D5185m | >20 | 8 2 | 9 5 | | |
| Silicon Sodium Potassium INFRA-RED | ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | >20 >20 | 8 2 71 | 9 5 201 | | |
| Silicon Sodium Potassium INFRA-RED Soot % | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m method | >20 >20 limit/base | 8 2 71 current | 9 5 201 history1 | history2 | |
| Silicon Sodium Potassium INFRA-RED Soot % Nitration | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 | >20 >20 limit/base >3 | 8 2 71 current 0.9 | 9 5 201 history1 0.7 | history2 | |
| Silicon Sodium Potassium INFRA-RED Soot % Nitration | ppm ppm ppm % Abs/cm Abs/.1mm | ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 | >20 >20 limit/base >3 >20 | 8 2 71 current 0.9 9.6 | 9 5 201 history1 0.7 9.5 | history2 | |
| Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation | ppm ppm ppm % Abs/cm Abs/.1mm | ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 | >20 >20 limit/base >3 >20 >30 | 8 2 71 current 0.9 9.6 21.4 | 9 5 201 history1 0.7 9.5 23.0 | history2 | |



Sample Rating Trend



3

30

2! Abs/cm

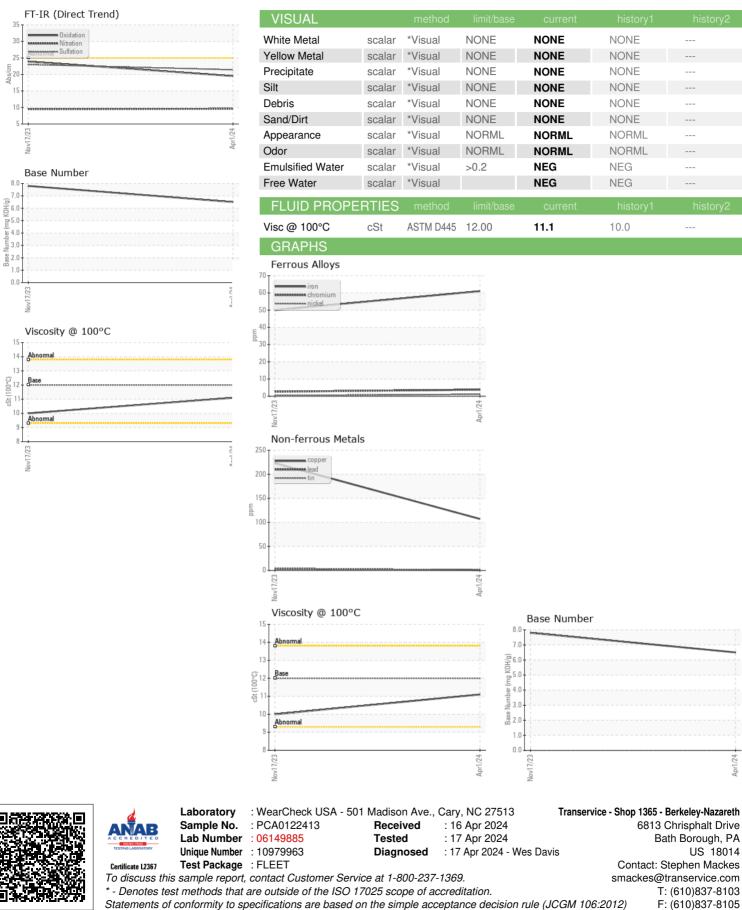
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8.

14

13 cSt (100°C)

OIL ANALYSIS REPORT



Report Id: TSV1365 [WUSCAR] 06149885 (Generated: 04/17/2024 12:14:27) Rev: 1

Contact/Location: Stephen Mackes - TSV1365

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