

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **227**Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a components first oil change.

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.

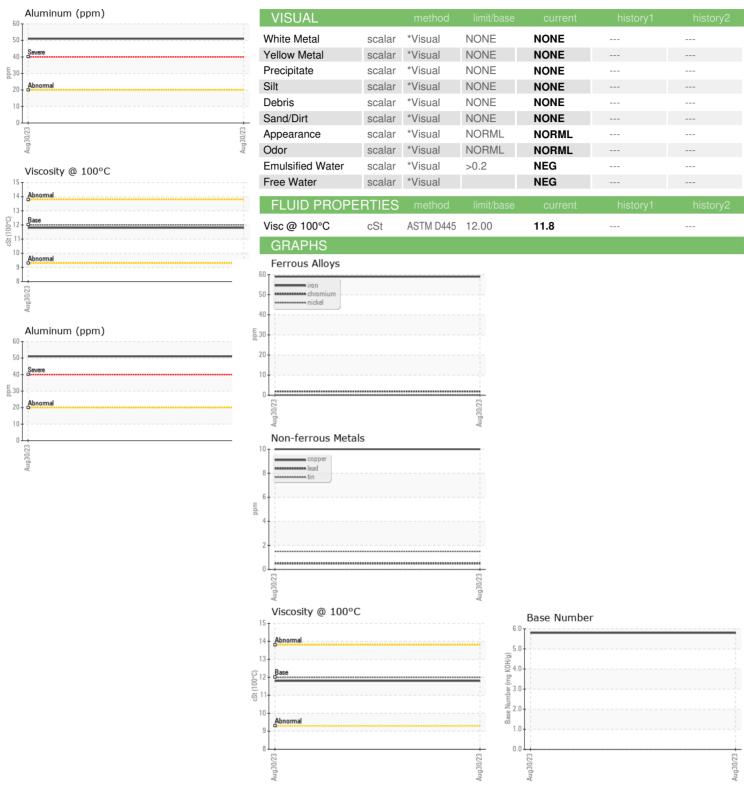
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| iAL) | | | | Aug2023 | | |
|------------------|----------|-------------|------------|-------------|----------|----------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0103169 | | |
| Sample Date | | Client Info | | 30 Aug 2023 | | |
| Machine Age | hrs | Client Info | | 1017 | | |
| Oil Age | hrs | Client Info | | 1017 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | | |
| Glycol | | WC Method | | NEG | | |
| WEAR METAL | .S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | 59 | | |
| Chromium | ppm | ASTM D5185m | >20 | 2 | | |
| Nickel | ppm | ASTM D5185m | >4 | 0 | | |
| Titanium | ppm | ASTM D5185m | | <1 | | |
| Silver | ppm | ASTM D5185m | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 51 | | |
| Lead | ppm | ASTM D5185m | >40 | <1 | | |
| Copper | ppm | ASTM D5185m | >330 | 10 | | |
| Tin | ppm | ASTM D5185m | >15 | 2 | | |
| Vanadium | ppm | ASTM D5185m | | <1 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 2 | 16 | | |
| Barium | ppm | ASTM D5185m | 0 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 50 | 18 | | |
| Manganese | ppm | ASTM D5185m | 0 | 2 | | |
| Magnesium | ppm | ASTM D5185m | 950 | 887 | | |
| Calcium | ppm | ASTM D5185m | 1050 | 1447 | | |
| Phosphorus | ppm | ASTM D5185m | 995 | 837 | | |
| Zinc | ppm | ASTM D5185m | 1180 | 1020 | | |
| Sulfur | ppm | ASTM D5185m | 2600 | 3774 | | |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 13 | | |
| Sodium | ppm | ASTM D5185m | | 5 | | |
| Potassium | ppm | ASTM D5185m | >20 | 145 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.3 | | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.3 | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.8 | | |
| FLUID DEGRA | NOITAC | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.1 | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 5.8 | | |



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Certificate L2367

Laboratory Sample No.

Lab Number Unique Number

: PCA0103169 : 05953220 : 10649179 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed Diagnostician

: 15 Sep 2023 : 19 Sep 2023 : Wes Davis

BLUE MAX TRUCKING 1015 E. WESTINGHOUSE BLVD. CHARLOTTE, NC

US 28273 Contact: Jody Greer

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* - 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)