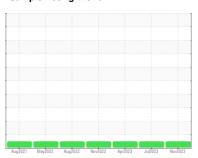


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **411145**

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

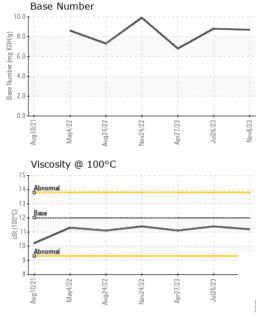
Fluid Condition

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

| GAL) | | Aug2021 | May2022 Aug2022 | Nov2022 Apr2023 Jul2023 | Nov2023 | |
|------------------|----------|-------------|-----------------|-------------------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0110497 | PCA0103023 | PCA0095898 |
| Sample Date | | Client Info | | 08 Nov 2023 | 26 Jul 2023 | 27 Apr 2023 |
| Machine Age | mls | Client Info | | 57196 | 53583 | 50168 |
| Oil Age | mls | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| WEAR METAL | .S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | 13 | 7 | 25 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | 1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 6 | 2 | 7 |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 2 | 1 | 3 |
| Tin | ppm | ASTM D5185m | >15 | 1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 2 | 12 | 15 | 13 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 61 | 60 | 64 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 950 | 919 | 911 | 964 |
| Calcium | ppm | ASTM D5185m | | 1120 | 1095 | 1155 |
| Phosphorus | ppm | ASTM D5185m | 995 | 989 | 987 | 1070 |
| Zinc | ppm | ASTM D5185m | 1180 | 1224 | 1210 | 1319 |
| Sulfur | ppm | ASTM D5185m | 2600 | 2982 | 3606 | 3960 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 4 | 5 | 5 |
| Sodium | ppm | ASTM D5185m | | 1 | 1 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 2 | 6 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.2 | 0.4 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.6 | 6.9 | 9.2 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.7 | 18.5 | 18.7 |
| FLUID DEGRAI | NOITAC | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.9 | 14.5 | 16.6 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 8.7 | 8.8 | 6.8 |
| | | | | | | |

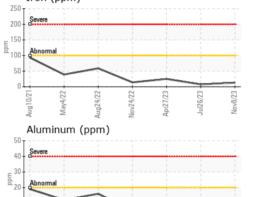


OIL ANALYSIS REPORT

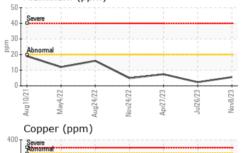


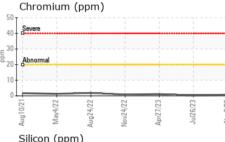
| VISUAL | | method | | | | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPE | RTIES | method | limit/hase | current | history1 | history2 |

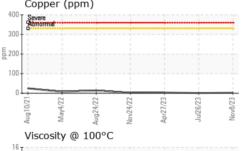
| I LOID I HOI | LITTLO | | | | | |
|--------------|--------|-----------|-------|------------|------|------|
| Visc @ 100°C | cSt | ASTM D445 | 12.00 | 11.2 | 11.4 | 11.1 |
| GRAPHS | | | | | | |
| Iron (ppm) | | | | Lead (ppm) | | |

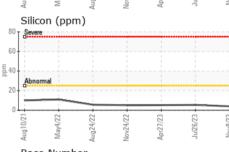


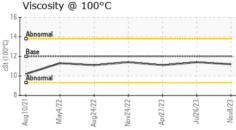


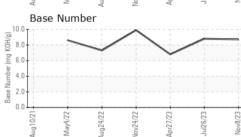














Laboratory Sample No. Lab Number **Unique Number**

: 10752138

: PCA0110497 : 06012994

Received Diagnosed

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 20 Nov 2023 : 21 Nov 2023

Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: TBN)

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)

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