

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine

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

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

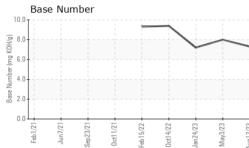
Fluid Condition

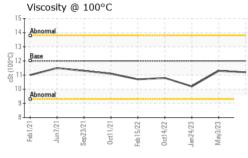
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| TS) | | Feb2021 Ju | | Feb2022 Oct2022 Jan2023 May20 | | |
|------------------|------------|----------------------------|--------------|--|--------------|--------------|
| SAMPLE INFOR | MATION | | limit/base | Feb2022 Oct2022 Jan2023 May20 Current | history1 | history2 |
| Sample Number | | Client Info | | PCA0093321 | PCA0078745 | PCA0078776 |
| Sample Date | | Client Info | | 12 Aug 2023 | 03 May 2023 | 24 Jan 2023 |
| Machine Age | mls | Client Info | | 215248 | 195630 | 177205 |
| Dil Age | mls | Client Info | | 0 | 0 | 0 |
| Dil Changed | iiiio | Client Info | | Changed | N/A | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Glycol | | WC Method | 20 | NEG | NEG | NEG |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| ron | ppm | ASTM D5185m | >100 | 33 | 45 | 48 |
| Chromium | ppm | ASTM D5185m | >20 | 1 | 2 | 1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 7 | 7 | 1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 9 | 11 | 13 |
| Lead | ppm | ASTM D5185m | >40 | ء <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | | 2 | 2 | 4 |
| Fin | | ASTM D5185m | >15 | 2 <1 | <1 | 4 <1 |
| Vanadium | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Cadmium | ppm ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | ppm | method | limit/base | current | history1 | history2 |
| Boron | nnm | ASTM D5185m | 2 | 4 | 5 | 3 |
| Barium | ppm | ASTM D5185m | | 4 | 0 | 0 |
| | ppm | ASTM D5185m | | - | 66 | 59 |
| Molybdenum | ppm | | 50 | 56 | | |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 950 | 909 | 1020 | 822 |
| | ppm | ASTM D5185m | 1050 | 1151 | 1276 | 1089 |
| Phosphorus | ppm | ASTM D5185m | 995 | 969 | 1136 | 927 |
| Zinc Sulfur | ppm | ASTM D5185m ASTM D5185m | 1180 2600 | 1231 3501 | 1422 3681 | 1147 2912 |
| ounui | ppm | | | | | |
| CONTAMINAN | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 5 | 6 | 4 |
| Sodium | ppm | ASTM D5185m | | 4 | 3 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 11 | 9 | 14 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 1 | 1.1 | 1.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.7 | 11.0 | 11.7 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.0 | 21.2 | 22.4 |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.1 | 17.7 | 19.6 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 7.3 | 8.0 | 7.2 |

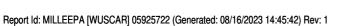


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Certificate L2367

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