

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area (89866X) Walgreens Machine Id [Walgreens] 136A68125 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

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 oil.

Fluid Condition

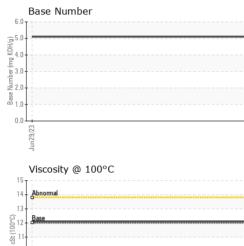
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| , | | | | Jun2023 | | |
|--|--|---|--|---|---|--|
| SAMPLE INFORM | IATION | method | limit/base | current | history 1 | history 2 |
| Sample Number | | Client Info | | PCA0094991 | | |
| Sample Date | | Client Info | | 29 Jun 2023 | | |
| Machine Age | mls | Client Info | | 707365 | | |
| Oil Age | mls | Client Info | | 0 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINATI | ON | method | limit/base | current | history 1 | history 2 |
| Fuel | | WC Method | >5 | <1.0 | | |
| Glycol | | WC Method | | NEG | | |
| WEAR METALS | 6 | method | limit/base | current | history 1 | history 2 |
| Iron | ppm | ASTM D5185m | >80 | 27 | | |
| Chromium | ppm | ASTM D5185m | >5 | 2 | | |
| Nickel | ppm | ASTM D5185m | >2 | <1 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >30 | 13 | | |
| Lead | ppm | ASTM D5185m | >30 | 0 | | |
| Copper | ppm | ASTM D5185m | >150 | 3 | | |
| Tin | ppm | ASTM D5185m | >5 | <1 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history 1 | history 2 |
| Boron | ppm | ASTM D5185m | 2 | 0 | | |
| Barium | ppm | ASTM D5185m | 0 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 50 | 62 | | |
| Manganese | | | | | | |
| 0 | ppm | ASTM D5185m | 0 | <1 | | |
| Magnesium | ppm ppm | ASTM D5185m ASTM D5185m | 0 950 | <1 1046 | | |
| Magnesium Calcium | ppm | ASTM D5185m | 950 | 1046 | | |
| Calcium | ppm ppm | | | | | |
| - | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | 950 1050 | 1046 1142 | | |
| Calcium Phosphorus | ppm ppm | ASTM D5185m ASTM D5185m | 950 1050 995 | 1046 1142 1078 | | |
| Calcium Phosphorus Zinc | ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 950 1050 995 1180 | 1046 1142 1078 1375 | | |
| Calcium Phosphorus Zinc Sulfur CONTAMINAN | ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method | 950 1050 995 1180 2600 limit/base | 1046 1142 1078 1375 3323 current | | |
| Calcium Phosphorus Zinc Sulfur CONTAMINAN ⁻ Silicon | ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m | 950 1050 995 1180 2600 | 1046 1142 1078 1375 3323 current 6 | history 1 | history 2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINAN | ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method | 950 1050 995 1180 2600 limit/base | 1046 1142 1078 1375 3323 current | history 1 | history 2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium | ppm ppm ppm ppm ppm FS ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 950 1050 995 1180 2600 limit/base >20 | 1046 1142 1078 1375 3323 current 6 3 | history 1 | history 2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED | ppm ppm ppm ppm ppm TS ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 950 1050 995 1180 2600 limit/base >20 limit/base | 1046 1142 1078 1375 3323 current 6 3 4 current | history 1 history 1 | history 2 history 2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium INFRA-RED Soot % | ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 950 1050 995 1180 2600 limit/base >20 limit/base >3 | 1046 1142 1078 1375 3323 current 6 3 4 current 1 | history 1 history 1 | history 2 history 2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium INFRA-RED Soot % Nitration | ppm ppm ppm ppm ppm ppm ppm ppm ppm kos/cm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7844 | 950 1050 995 1180 2600 <i>limit/base</i> >20 <i>limit/base</i> >3 >20 | 1046 1142 1078 1375 3323 current 6 3 4 current 1 1 10.7 | history 1 history 1 history 1 | history 2 history 2 history 2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7844 | 950 1050 995 1180 2600 imit/base >20 >20 imit/base >3 >20 >3 >20 | 1046 1142 1078 1375 3323 current 6 3 4 current 1 10.7 24.8 | history 1 history 1 history 1 | history 2 history 2 history 2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD | ppm ppm ppm ppm ppm ppm ppm ppm ppm % Abs/cm Abs/cm Abs/.1mm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7844 | 950 1050 995 1180 2600 imit/base >20 20 imit/base >3 >20 >30 imit/base | 1046 1142 1078 1375 3323 current 6 3 4 current 1 10.7 24.8 current | history 1 history 1 history 1 | history 2 history 2 history 2 history 2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7844 | 950 1050 995 1180 2600 imit/base >20 >20 imit/base >3 >20 >3 >20 | 1046 1142 1078 1375 3323 current 6 3 4 current 1 10.7 24.8 | history 1 history 1 history 1 | history 2 history 2 history 2 |



10 Abnormal 9 8. Jun29/23

OIL ANALYSIS REPORT



| | VISUAL | | method | | | history 1 | history 2 |
|---|--|--|--------------------------------------|--|---|-----------------------|---|
| | White Metal | scalar | *Visual | NONE | NONE | | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | | |
| | Precipitate | scalar | *Visual | NONE | NONE | | |
| | Silt | scalar | *Visual | NONE | NONE | | |
| | Debris | scalar | *Visual | NONE | NONE | | |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | | |
| un 29/23 | Appearance | scalar | *Visual | NORML | NORML | | |
| | Odor | scalar | *Visual | NORML | NORML | | |
| | Emulsified Water | scalar | *Visual | >0.2 | NEG | | |
| | Free Water | scalar | *Visual | | NEG | | |
| | FLUID PROPE | RTIES | method | limit/base | current | history 1 | history 2 |
| | Visc @ 100°C | cSt | ASTM D445 | 12.00 | 12.1 | | |
| | GRAPHS | | | | | | |
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| | 8 | | | Jun29/23 | | | |
| | Be de tin | | | Jun29/23 | Base Number | | |
| | Viscosity @ 100°C | | | Jun29/23 | Base Number | | |
| | Be de tin | 2 | | |] | | |
| | Viscosity @ 100°C | 5 | | |] | | |
| | Viscosity @ 100°C | 2 | | |] | | |
| | Viscosity @ 100°C | | | |] | | |
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| Laboratory Sample No. Lab Number Unique Number | Viscosity @ 100°C Viscosity @ 100°C 14 Abnormal 13 10 Abnormal 13 10 2 14 10 10 10 10 10 10 10 10 10 10 | | d :10. ed :11. | 6./ (6)HOX MU agume 8989 1./ 8989 1./ 0./ 52(52Unr | Jun 23/23 | v | rkeley-Waxahach 710 Ovilla Roa Vaxahachie, T US 7516 |
| Sample No. Lab Number Unique Number Test Package | USCOSITY @ 100°C | 501 Madia Received Diagnos Diagnost | d :10. ed :11. tician :We | ry, NC 2751: Jul 2023 S Davis | Jun 23/23 | V | erkeley-Waxahach 710 Ovilla Roa Vaxahachie, T US 7516 act: Robert Bea |
| Sample No. Lab Number Unique Number | Viscosity @ 100°C Viscosity @ 100°C Abnormal Abnormal Base : WearCheck USA - 1 : PCA0094991 : 05894283 r : 10550093 = : FLEET , contact Customer Serv | 501 Madia Received Diagnos Diagnost | d : 10 . ed : 11 . tician : We | ry, NC 27513 Jul 2023 S Davis | Jun 23/23 | V Conta rbeal@t | e rkeley-Waxahach 710 Ovilla Roa Vaxahachie, T US 7516 |

Contact/Location: Robert Beal - TSV1369