

OIL ANALYSIS REPORT

Sample Rating Trend





5097 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- G

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

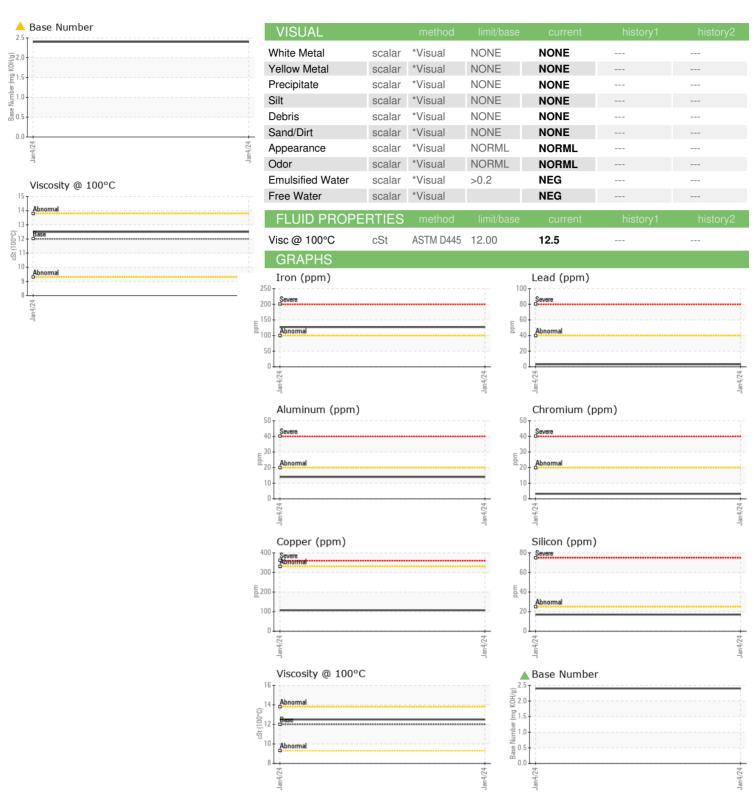
▲ Fluid Condition

The BN level is low. The condition of the oil is acceptable for the time in service.

| SAMPLE INFORMATION method limit/base current history2 history2 Sample Number Client Info Q4 Jan 2024 Machine Age mls Client Info Q4 Jan 2024 Machine Age mls Client Info Q6 Jan 2024 Machine Age mls Client Info Q6 Machine Age mls Client Info Q6 Machine Age mls Client Info Q7 Mark Mater Client Info Changed Mark Mater WC Method S5 <1.0 Mark Mater WC Method NEG Mark Mater WC Method NEG Method NEG Method NEG M | | | | | | | |
|--|------------------|----------|-------------|------------|--------------|----------|----------|
| Client Info | TS) | | | | Jan 2024 | | |
| Cample Date Client Info Q4 Jan 2024 | SAMPLE INFOR | RMATION | method | limit/base | current | history1 | history2 |
| Machine Age mis Client Info 0 0 0 0 0 0 0 0 0 | Sample Number | | Client Info | | PCA0115179 | | |
| Dil Age | Sample Date | | Client Info | | 04 Jan 2024 | | |
| Client Info | Machine Age | mls | Client Info | | 44063 | | |
| CONTAMINATION method mill/base current history1 history2 | Oil Age | mls | Client Info | | 0 | | |
| CONTAMINATION method limit/base current history1 history2 | Oil Changed | | Client Info | | Changed | | |
| Water WC Method So.2 NEG NEG Solycol WC Method NEG | Sample Status | | | | ATTENTION | | |
| Water WC Method >0.2 NEG | CONTAMINAT | ΓΙΟΝ | method | limit/base | current | history1 | history2 |
| WEAR METALS | -uel | | WC Method | >5 | <1.0 | | |
| WEAR METALS | Water | | WC Method | >0.2 | NEG | | |
| Chromium | Glycol | | WC Method | | NEG | | |
| ASTM D5185m | WEAR METAL | _S | method | limit/base | current | history1 | history2 |
| Silver | ron | ppm | ASTM D5185m | >100 | 127 | | |
| Nickel ppm | Chromium | | ASTM D5185m | >20 | 3 | | |
| Description | Nickel | | | >4 | 0 | | |
| Astronometric Astronometri | Γitanium | | ASTM D5185m | | 0 | | |
| December December | Silver | ppm | ASTM D5185m | >3 | 0 | | |
| Description | Aluminum | ppm | ASTM D5185m | >20 | 14 | | |
| Description | _ead | ppm | ASTM D5185m | >40 | 3 | | |
| Acade | Copper | | ASTM D5185m | >330 | 107 | | |
| Acade Acad | | ppm | ASTM D5185m | >15 | 5 | | |
| ADDITIVES | /anadium | ppm | ASTM D5185m | | <1 | | |
| Sarium | Cadmium | ppm | ASTM D5185m | | 0 | | |
| Barium | ADDITIVES | | method | limit/base | current | history1 | history2 |
| Molybdenum ppm ASTM D5185m 50 69 Manganese ppm ASTM D5185m 0 3 Magnesium ppm ASTM D5185m 950 1008 Calcium ppm ASTM D5185m 1050 1389 Phosphorus ppm ASTM D5185m 1180 1538 Zinc ppm ASTM D5185m 2600 2698 Sulfur ppm ASTM D5185m 2600 2698 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >25 17 Potassium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 Potassium ppm ASTM D518 | Boron | ppm | ASTM D5185m | 2 | 7 | | |
| Manganese ppm ASTM D5185m 0 3 Magnesium ppm ASTM D5185m 950 1008 Calcium ppm ASTM D5185m 1050 1389 Phosphorus ppm ASTM D5185m 995 1227 Zinc ppm ASTM D5185m 1180 1538 Sulfur ppm ASTM D5185m 2600 2698 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >25 17 Solicon ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 | Barium | ppm | ASTM D5185m | 0 | 0 | | |
| Manganese ppm ASTM D5185m 0 3 Magnesium ppm ASTM D5185m 950 1008 Calcium ppm ASTM D5185m 1050 1389 Phosphorus ppm ASTM D5185m 995 1227 Zinc ppm ASTM D5185m 2600 2698 Sulfur ppm ASTM D5185m 2600 2698 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >25 17 Solicon ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 >3 | Molybdenum | ppm | ASTM D5185m | 50 | 69 | | |
| Calcium ppm ASTM D5185m 1 050 1389 Phosphorus ppm ASTM D5185m 995 1227 Zinc ppm ASTM D5185m 1180 1538 Sulfur ppm ASTM D5185m 2600 2698 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 17 Godium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 2 Sulfation Abs/.1mm *ASTM D7415 >30 26.9 FLUID DEGRADATION *ASTM D7414 <td< td=""><td>•</td><td></td><td>ASTM D5185m</td><td>0</td><td>3</td><td></td><td></td></td<> | • | | ASTM D5185m | 0 | 3 | | |
| Calcium ppm ASTM D5185m 1 050 1389 Phosphorus ppm ASTM D5185m 995 1227 Zinc ppm ASTM D5185m 1180 1538 Sulfur ppm ASTM D5185m 2600 2698 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 17 Godium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 2 Sulfation Abs/.1mm *ASTM D7415 >30 26.9 FLUID DEGRADATION *ASTM D7414 <td< td=""><td>Magnesium</td><td></td><td>ASTM D5185m</td><td>950</td><td>1008</td><td></td><td></td></td<> | Magnesium | | ASTM D5185m | 950 | 1008 | | |
| Time | - | | ASTM D5185m | 1050 | 1389 | | |
| Description | Phosphorus | | ASTM D5185m | 995 | 1227 | | |
| Gulfur ppm ASTM D5185m 2600 2698 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 17 Godium ppm ASTM D5185m 4 Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Goot % % *ASTM D7844 >3 2 Sulfation Abs/.1mm *ASTM D7624 >20 15.4 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 25.6 | | | ASTM D5185m | 1180 | 1538 | | |
| Solition ppm ASTM D5185m >25 17 | Sulfur | | ASTM D5185m | 2600 | 2698 | | |
| Sodium | CONTAMINAN | NTS | method | limit/base | current | history1 | history2 |
| Sodium ppm ASTM D5185m 4 | Silicon | ppm | ASTM D5185m | >25 | 17 | | |
| Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 2 Nitration Abs/cm *ASTM D7624 >20 15.4 Sulfation Abs/.1mm *ASTM D7415 >30 26.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.6 | Sodium | | ASTM D5185m | | 4 | | |
| Soot % | Potassium | | ASTM D5185m | >20 | 3 | | |
| Nitration Abs/cm *ASTM D7624 >20 15.4 Sulfation Abs/.1mm *ASTM D7415 >30 26.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.6 | INFRA-RED | | method | limit/base | current | history1 | history2 |
| Sulfation Abs/.1mm *ASTM D7415 >30 26.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.6 | Soot % | % | *ASTM D7844 | >3 | 2 | | |
| Sulfation Abs/.1mm *ASTM D7415 >30 26.9 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 25.6 | Nitration | Abs/cm | *ASTM D7624 | >20 | 15.4 | | |
| Oxidation | Sulfation | | *ASTM D7415 | >30 | | | |
| | FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 25.6 | | |
| | Base Number (BN) | mg KOH/g | ASTM D2896 | | ▲ 2.4 | | |



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0115179 : 06052530

: 10818479

Recieved : 05 Jan 2024 Diagnosed : 08 Jan 2024 Diagnostician : Don Baldridge

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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