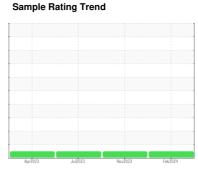


OIL ANALYSIS REPORT

BARTO 7088 [BARTO]

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

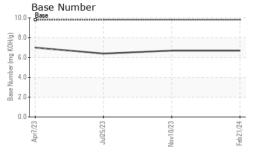
Fluid Condition

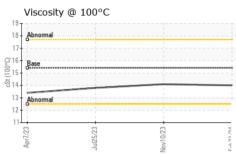
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| , | | Apr202 | 3 Jul2023 | Nov2023 Fe | b2024 | |
|---|--|--|---------------------------------------|---|---|---|
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
| Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status | mls mls | Client Info Client Info Client Info Client Info Client Info | | SBP0006658 21 Feb 2024 182579 41847 Changed NORMAL | SBP0005875 10 Nov 2023 140732 37162 Changed NORMAL | SBP0004715 25 Jul 2023 103570 35327 Changed NORMAL |
| CONTAMINATION | 1 | method | limit/base | current | history1 | history2 |
| Fuel Water Glycol | | WC Method WC Method WC Method | | <1.0 NEG NEG | <1.0 NEG NEG | <1.0 NEG NEG |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron Chromium Nickel Titanium Silver Aluminum Lead Copper | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >2 >3 >30 >30 >30 >150 | 24 3 <1 0 0 13 1 | 31 4 <1 <1 <1 17 0 | 32 4 <1 0 <1 25 0 |
| Tin Vanadium | ppm | ASTM D5185m ASTM D5185m | >5 | <1 <1 | <1 0 | 1 |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| | ррпп | | | | | |
| ADDITIVES Boron Barium | ppm | method ASTM D5185m ASTM D5185m | | current 0 0 | history1 <1 0 | history2 2 |
| Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | 60 | 64 <1 1045 1219 1066 | 62 1 956 1090 856 | 63 1 960 1194 935 |
| Zinc Sulfur | ppm ppm | ASTM D5185m ASTM D5185m | 1270 2060 | 1363 2504 | 1233 2457 | 1225 2317 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon Sodium Potassium | ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | >20 >20 | 10 4 24 | 8 <1 36 | 8 <1 51 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % Nitration Sulfation | % Abs/cm Abs/.1mm | *ASTM D7844 *ASTM D7624 *ASTM D7415 | >3 >20 >30 | 0.7 9.3 21.3 | 0.7 9.9 22.2 | 0.6 9.5 21.6 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Oxidation Base Number (BN) | Abs/.1mm mg KOH/g | *ASTM D7414 ASTM D2896 | >25 9.8 | 17.7 6.7 | 19.8 6.7 | 19.7 6.4 |



OIL ANALYSIS REPORT

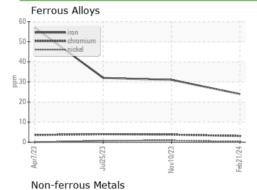


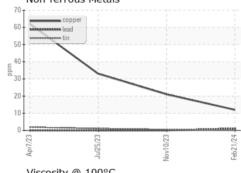


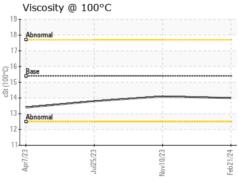
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | 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 |

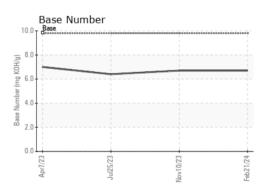
| FLUID PROPER | IIES | method | ilmit/base | | nistory i | nistory2 |
|--------------|------|-----------|------------|------|-----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 14.0 | 14.1 | 13.8 |

GRAPHS













Laboratory Sample No.

Lab Number : 06100763 Unique Number: 10898993 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0006658 Received : 26 Feb 2024 **Tested**

Diagnosed

: 27 Feb 2024 : 27 Feb 2024 - Wes Davis

SCHMIDT TRANSPORTATION - BARTO

108 E Bay Road Plattsmouth, NE US 68048 Contact: Service Manager

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)

T:

F: