

OIL ANALYSIS REPORT

Sample Rating Trend



Area SCHTRUCK 6354 [SCHTRUCK]

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 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.

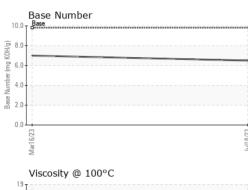
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|---|--|--|---|--|---|--|
| Sample Number | | Client Info | | SBP0004723 | SBP0004181 | |
| Sample Date | | Client Info | | 18 Jul 2023 | 16 Mar 2023 | |
| Machine Age | mls | Client Info | | 349022 | 310028 | |
| Oil Age | mls | Client Info | | 38994 | 38003 | |
| Oil Changed | | Client Info | | Changed | Changed | |
| Sample Status | | | | NORMAL | NORMAL | |
| CONTAMINATION | N | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | |
| Glycol | | WC Method | | NEG | NEG | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >80 | 21 | 25 | |
| Chromium | ppm | ASTM D5185m | >5 | 3 | 3 | |
| Nickel | ppm | ASTM D5185m | >2 | ہ <1 | 0 | |
| Titanium | ppm | ASTM D5185m | ~_ | <1 | 0 | |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >30 | 16 | 19 | |
| Lead | | ASTM D5185m | >30 | 0 | 0 | |
| Copper | ppm | ASTM D5185m | >30 | 9 | 6 | |
| Tin | ppm | | | - | <1 | |
| Vanadium | ppm | ASTM D5185m | >5 | <1 | < 1 | |
| | ppm | ASTM D5185m | | <1 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | |
| | | | | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | | limit/base | current 1 | history1 30 | nistory2 |
| | ppm ppm | | | 1 0 | | |
| Boron | | ASTM D5185m | 0 | 1 0 63 | 30 | |
| Boron Barium | ppm | ASTM D5185m ASTM D5185m | 0 | 1 0 | 30 0 | |
| Boron Barium Molybdenum | ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 | 1 0 63 | 30 0 47 | |
| Boron Barium Molybdenum Manganese | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 0 | 1 0 63 <1 | 30 0 47 <1 | |
| Boron Barium Molybdenum Manganese Magnesium | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 0 1010 | 1 0 63 <1 981 | 30 0 47 <1 563 | |
| Boron Barium Molybdenum Manganese Magnesium Calcium | ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 0 1010 1070 | 1 0 63 <1 981 1304 | 30 0 47 <1 563 1803 | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 0 1010 1070 1150 | 1 0 63 <1 981 1304 1015 | 30 0 47 <1 563 1803 776 | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 | 1 0 63 <1 981 1304 1015 1258 | 30 0 47 <1 563 1803 776 950 | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 1010 1070 1150 1270 2060 | 1 0 63 <1 981 1304 1015 1258 3127 | 30 0 47 <1 563 1803 776 950 3055 | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 1010 1070 1150 1270 2060 | 1 0 63 <1 981 1304 1015 1258 3127 current | 30 0 47 <1 563 1803 776 950 3055 history1 | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method | 0 0 60 1010 1070 1150 1270 2060 | 1 0 63 <1 981 1304 1015 1258 3127 current 4 | 30 0 47 <1 563 1803 776 950 3055 history1 8 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium | 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 D5185m ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 2060 kimit/base >20 | 1 0 63 <1 981 1304 1015 1258 3127 current 4 3 | 30 0 47 <1 563 1803 776 950 3055 history1 8 5 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 2060 limit/base >20 | 1 0 63 <1 981 1304 1015 1258 3127 current 4 3 15 | 30 0 47 <1 563 1803 776 950 3055 history1 8 5 19 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m | 0 0 0 1010 1070 1150 1270 2060 limit/base >20 limit/base | 1 0 63 <1 981 1304 1015 1258 3127 current 4 3 15 current | 30 0 47 <1 563 1803 776 950 3055 history1 8 5 19 history1 | history2 history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 2060 limit/base >20 >20 limit/base >20 | 1 0 63 <1 981 1304 1015 1258 3127 current 4 3 15 current 0.2 | 30 0 47 <1 563 1803 776 950 3055 history1 8 5 19 history1 0.6 | history2 history2 history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m | 0 0 0 1010 1070 1150 1270 2060 <i>limit/base</i> >20 <i>limit/base</i> >20 | 1 0 63 <1 981 1304 1015 1258 3127 <i>current</i> 4 3 15 <i>current</i> 0.2 9.2 | 30 0 47 <1 563 1803 776 950 3055 history1 8 5 19 history1 0.6 11.0 | history2 history2 history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m | 0 0 0 1010 1070 1150 1270 2060 imit/base >20 imit/base >3 >20 >3 | 1 0 63 <1 981 1304 1015 1258 3127 current 4 3 15 current 0.2 9.2 21.2 | 30 0 47 <1 563 1803 776 950 3055 history1 8 5 19 history1 0.6 11.0 24.1 | history2 history2 history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415 | 0 0 0 1010 1070 1150 1270 2060 2060 2060 200 200 200 200 200 200 | 1 0 63 <1 981 1304 1015 1258 3127 current 4 3 15 current 0.2 9.2 21.2 current | 30 0 47 <1 563 1803 776 950 3055 history1 8 5 19 history1 0.6 11.0 24.1 history1 | history2 history2 history2 history2 |



18 Abnorma 17 () 10.00 15. 14. Base

13 Abnormal 12 11 Mar16/23

OIL ANALYSIS REPORT



| | VISUAL | | method | limit/base | current | history1 | history2 |
|---|-----------------------------------|--------------------------|-----------|--|---------------|----------|------------------------------|
| | White Metal | scalar | *Visual | NONE | NONE | NONE | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | |
| | Precipitate | scalar | *Visual | NONE | NONE | NONE | |
| | Silt | scalar | *Visual | NONE | NONE | NONE | |
| | Debris | scalar | *Visual | NONE | NONE | NONE | |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | |
| | Appearance | scalar | *Visual | NORML | NORML | NORML | |
| | Odor | scalar | *Visual | NORML | NORML | NORML | |
| | Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | |
| J-C | Free Water | scalar | *Visual | | NEG | NEG | |
| | FLUID PROPERT | | method | limit/base | current | history1 | history2 |
| | Visc @ 100°C | cSt | ASTM D445 | | 14.2 | 13.7 | |
| | GRAPHS | | | | | | |
| | Ferrous Alloys | | | | | | |
| 2 | | | | | | | |
| 2 | iron chromium | | | | | | |
| 2 | annen nickel | | | | | | |
| = 1 | 5- | | | | | | |
| 톱. 11 | | | | | | | |
| | | | | | | | |
| | 5 | | | | | | |
| | | ************** | | | | | |
| | Mar16/23 | | | Jul18/23 . | | | |
| | Mar1 | | | Jult | | | |
| | Non-ferrous Metals | 5 | | | | | |
| 1 | Copper | | | | | | |
| | 8 - Reserves lead | | | | | | |
| | | | | | | | |
| E d | 6 | | | | | | |
| id . | 4 | | | | | | |
| | | | | | | | |
| | 2 | | | | | | |
| | | ***************** | | | | | |
| | lar16/23 | | | Jul18/23 | | | |
| | 2 | | | ηr | | | |
| 1 | Viscosity @ 100°C | | | | Base Number | | |
| | | | | 10.0 | Base | | |
| 1 | 1 | | | | | | |
| | 6 - P | | | KOH/ | | | |
| (3-10) 1100011 1101 | Base | | | B 6.0- | | | |
| ت ³ ا | 4- | | | 4.0- | | | |
| 1: | Abnormal | | | (0, 8.0 + (0, 9.0 + (0, 9.0 + (0, 10) (0, 10)(| | | |
| 1: | 2 | | | 2.04 | | | |
| 1 | 14 | | | 0.0 | e | | |
| | Mar16/23 | | | Jul18/23 | Mar16/23 | | Jul18/23 |
| | | | | | | | |
| | WearCheck USA - 5 SBP0004723 F | 01 Madis Received | | SCHMIDT TRANSPORTATION - 605449 108 E Bay Road | | | |
| | | Diagnos | | Jul 2023 Jul 2023 | | | ttsmouth, NE |
| Unique Number : | 10566506 E | iagnostician : Wes Davis | | | | | US 68048 |
| | FLEET | | | NICK DOTY | | | |
| To discuss this sample report, cor * - Denotes test methods that are | | | | | | | Itrucking.com 02)949-9398 |
| Statements of conformity to specific | | | | | CGM 106:2012) | 1. (4 | 602)949-9398 F: |

Submitted By: CASEY WILKIE

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