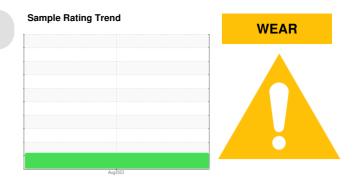


PROBLEM SUMMARY

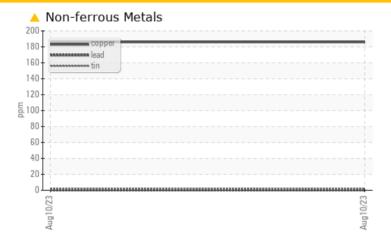
SCHTRUCK Machine Id 6429 [SCHTRUCK]

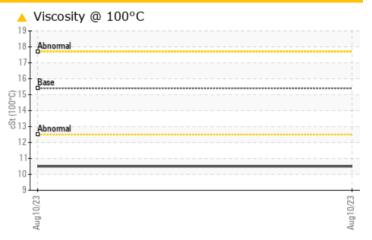
Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)



COMPONENT CONDITION SUMMARY





RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

| PROBLEMATIC | TEST R | ESULTS | | | |
|---------------|--------|-------------|------|------------|------|
| Sample Status | | | | ABNORMAL | |
| Copper | ppm | ASTM D5185m | >30 | 186 | |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | A 10.5 | |

Customer Id: SCHPLA Sample No.: SBP0004994 Lab Number: 05925247 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

| RECOMMENDED ACTIONS | | | | | | |
|---------------------|--------|------|---------|---|--|--|
| Action | Status | Date | Done By | Description | | |
| Change Fluid | | | ? | Oil and filter change at the time of sampling has been noted. | | |
| Change Filter | | | ? | Oil and filter change at the time of sampling has been noted. | | |

HISTORICAL DIAGNOSIS

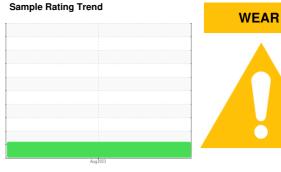


OIL ANALYSIS REPORT

SCHTRUCK 6429 [SCHTRUCK]

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

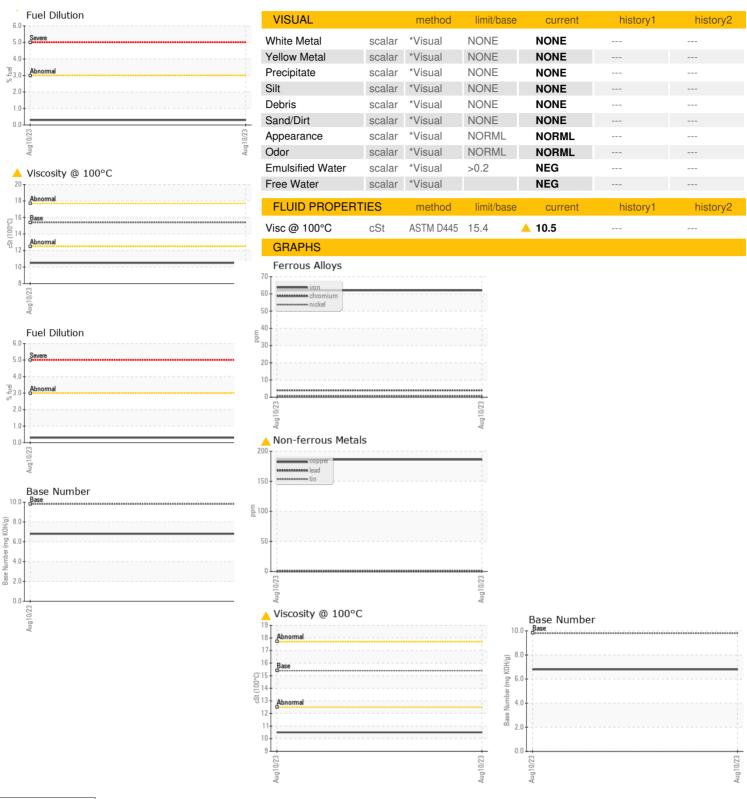
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

| GAL) | | | A | lug2023 | | |
|--|--|---|---|--|-------------------|-------------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | SBP0004994 | | |
| Sample Date | | Client Info | | 10 Aug 2023 | | |
| Machine Age | mls | Client Info | | 36220 | | |
| Oil Age | mls | Client Info | | 36220 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | ABNORMAL | | |
| CONTAMINATION | ١ | method | limit/base | current | history1 | history2 |
| Glycol | | WC Method | | NEG | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >200 | 62 | | |
| Chromium | ppm | ASTM D5185m | >20 | 4 | | |
| Nickel | ppm | ASTM D5185m | >2 | <1 | | |
| Titanium | ppm | ASTM D5185m | >2 | 0 | | |
| Silver | ppm | ASTM D5185m | >2 | <1 | | |
| Aluminum | ppm | ASTM D5185m | >30 | 65 | | |
| Lead | ppm | ASTM D5185m | >30 | 0 | | |
| Copper | ppm | ASTM D5185m | >30 | <u> </u> | | |
| Tin | ppm | ASTM D5185m | >15 | 2 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| | | | | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| ADDITIVES Boron | ppm | method ASTM D5185m | limit/base 0 | current 24 | history1 | history2 |
| | ppm ppm | | | | , i | |
| Boron | | ASTM D5185m | 0 | 24 | | |
| Boron Barium | ppm | ASTM D5185m ASTM D5185m | 0 | 24 0 | | |
| Boron Barium Molybdenum | ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 | 24 0 42 | | |
| Boron Barium Molybdenum Manganese | ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 0 | 24 0 42 3 | | |
| Boron Barium Molybdenum Manganese Magnesium | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 0 1010 | 24 0 42 3 643 | | |
| 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 | 24 0 42 3 643 1755 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 0 1010 1070 1150 | 24 0 42 3 643 1755 769 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | 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 | 0 0 60 0 1010 1070 1150 1270 | 24 0 42 3 643 1755 769 1016 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur | 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 | 24 0 42 3 643 1755 769 1016 2452 | | |
| 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 ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 2060 | 24 0 42 3 643 1755 769 1016 2452 current | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 2060 | 24 0 42 3 643 1755 769 1016 2452 current | | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 2060 limit/base | 24 0 42 3 643 1755 769 1016 2452 current 7 <1 | | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 2060 limit/base >30 | 24 0 42 3 643 1755 769 1016 2452 current 7 <1 152 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 2060 limit/base >30 >20 >3.0 | 24 0 42 3 643 1755 769 1016 2452 current 7 <1 152 0.3 | | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 2060 limit/base >30 >20 >3.0 | 24 0 42 3 643 1755 769 1016 2452 current 7 <1 152 0.3 | | history2 history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 2060 limit/base >30 >20 >3.0 limit/base | 24 0 42 3 643 1755 769 1016 2452 current 7 <1 152 0.3 current 0.5 | history1 history1 | history2 history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D7844 *ASTM D7844 | 0 0 60 0 1010 1070 1150 1270 2060 limit/base >30 >20 >3.0 limit/base >3 >20 | 24 0 42 3 643 1755 769 1016 2452 current 7 <1 152 0.3 current 0.5 10.7 | | history2 history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145 | 0 0 60 0 1010 1070 1150 1270 2060 limit/base >30 >20 >3.0 limit/base >3 >20 >30 | 24 0 42 3 643 1755 769 1016 2452 current 7 <1 152 0.3 current 0.5 10.7 22.6 | | |



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05925247

: SBP0004994 : 10605194

Received : 15 Aug 2023 Diagnosed : 17 Aug 2023 Diagnostician : Jonathan Hester

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

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)

SCHMIDT TRANSPORTATION - 605449

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Submitted By: CASEY WILKIE

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