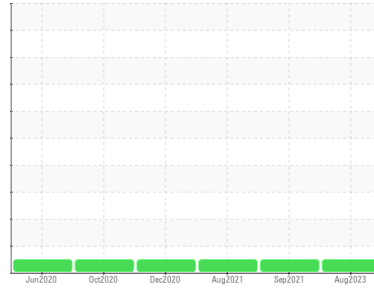


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
605567

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | PCA0100800 | PCA0057123 | PCA0053220 |
| Sample Date | Client Info | | 16 Aug 2023 | 24 Sep 2021 | 28 Aug 2021 |
| Machine Age | mls | Client Info | 142508 | 3631 | 85616 |
| Oil Age | mls | Client Info | 142508 | 3631 | 0 |
| Oil Changed | Client Info | | Not Chngd | Changed | Changed |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Glycol | WC Method | | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >100 | 24 | 20 | 35 |
| Chromium | ppm | ASTM D5185m >20 | 3 | 1 | 6 |
| Nickel | ppm | ASTM D5185m >4 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | 17 | <1 | <1 |
| Silver | ppm | ASTM D5185m >3 | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m >20 | 18 | 11 | 20 |
| Lead | ppm | ASTM D5185m >40 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m >330 | 14 | 48 | 50 |
| Tin | ppm | ASTM D5185m >15 | <1 | 4 | 3 |
| Antimony | ppm | ASTM D5185m | --- | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | <1 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|-------------|----------|----------|
| Boron | ppm | ASTM D5185m 2 | 9 | 8 | 6 |
| Barium | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 50 | 68 | 60 | 65 |
| Manganese | ppm | ASTM D5185m 0 | 0 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m 950 | 1078 | 886 | 897 |
| Calcium | ppm | ASTM D5185m 1050 | 1584 | 1131 | 1160 |
| Phosphorus | ppm | ASTM D5185m 995 | 1213 | 892 | 912 |
| Zinc | ppm | ASTM D5185m 1180 | 1672 | 1210 | 1158 |
| Sulfur | ppm | ASTM D5185m 2600 | 4731 | 2386 | 2169 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | 3 | 2 | 2 |
| Sodium | ppm | ASTM D5185m | <1 | 2 | 0 |
| Potassium | ppm | ASTM D5185m >20 | 20 | 23 | 35 |

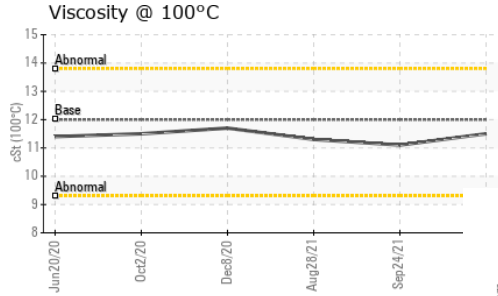
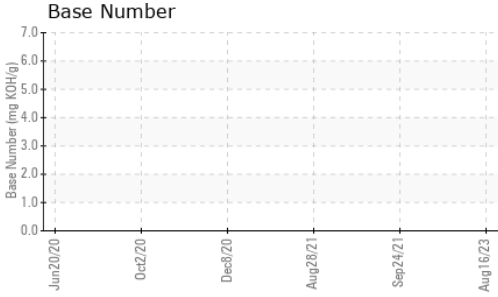
INFRA-RED

| | method | limit/base | current | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 >3 | 0.7 | 0.5 | 0.8 |
| Nitration | Abs/cm | *ASTM D7624 >20 | 8.8 | 8.8 | 9.7 |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 21.6 | 21 | 21.6 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 16.6 | 16.6 | 17.4 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 6.7 | --- | --- |

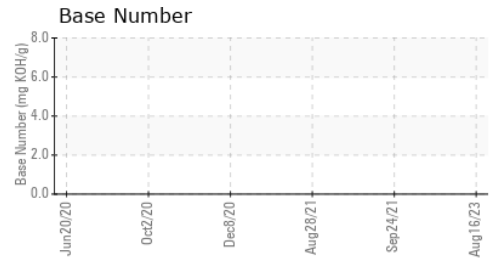
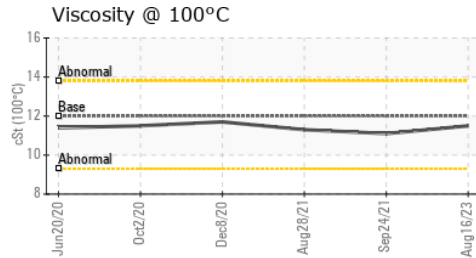
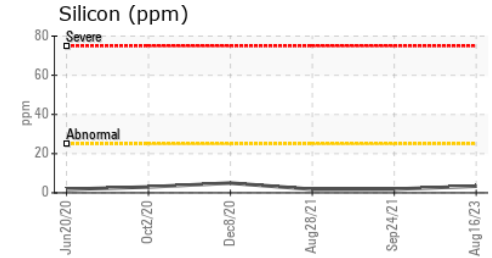
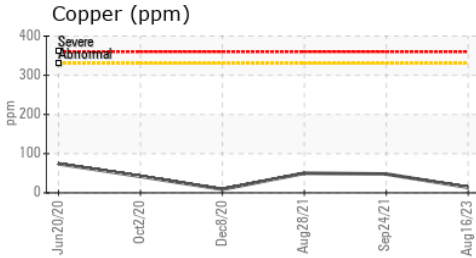
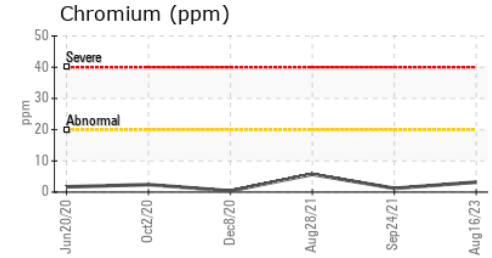
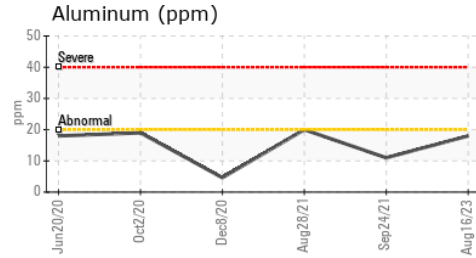
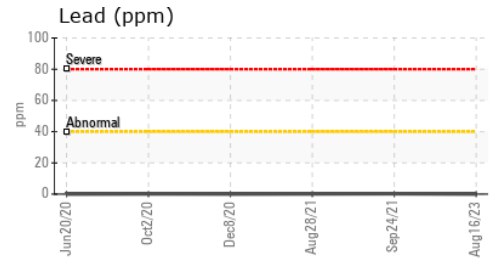
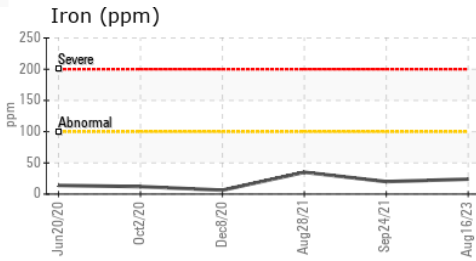
OIL ANALYSIS REPORT



| 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 |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 12.00 | 11.5 | 11.1 |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100800 **Received** : 21 Aug 2023
Lab Number : 05929272 **Diagnosed** : 22 Aug 2023
Unique Number : 10609219 **Diagnostician** : Angela Borella
Test Package : MOB 1 (Additional Tests: TBN)

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 2196 BENNETT ROAD
 PHILADELPHIA, PA
 US 19116
 Contact: ROSTY VITER
 rviter@millertransgroup.com
 T: (215)552-9832
 F: (215)552-9892

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)