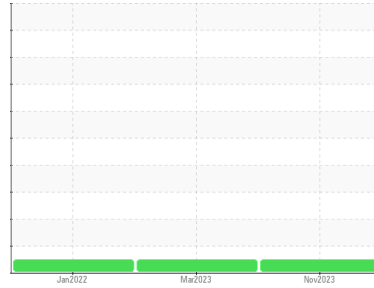


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Plymouth & Brockton
Machine Id
437

Component
Transmission (Auto)
Fluid
PETRO CANADA DURON SHP 15W40 (36 QTS)

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | PCA0104680 | PCA0083421 | PCA0059572 |
| Sample Date | Client Info | | 11 Nov 2023 | 04 Mar 2023 | 11 Jan 2022 |
| Machine Age | mls | Client Info | 251334 | 186036 | 13273 |
| Oil Age | mls | Client Info | 78000 | 78000 | 0 |
| Oil Changed | Client Info | | Changed | Changed | N/A |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|------------|----------|----------|
| Iron | ppm | ASTM D5185m >160 | 55 | 87 | 95 |
| Chromium | ppm | ASTM D5185m >5 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m >5 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m >5 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >50 | 18 | 24 | 22 |
| Lead | ppm | ASTM D5185m >50 | 10 | 24 | 43 |
| Copper | ppm | ASTM D5185m >225 | 17 | 14 | 14 |
| Tin | ppm | ASTM D5185m >10 | 2 | 3 | 3 |
| Antimony | ppm | ASTM D5185m | --- | --- | 0 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 0 | 75 | 110 | 101 |
| Barium | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 60 | 0 | <1 | 2 |
| Manganese | ppm | ASTM D5185m 0 | <1 | 1 | 2 |
| Magnesium | ppm | ASTM D5185m 1010 | 1 | <1 | <1 |
| Calcium | ppm | ASTM D5185m 1070 | 89 | 36 | 36 |
| Phosphorus | ppm | ASTM D5185m 1150 | 246 | 263 | 274 |
| Zinc | ppm | ASTM D5185m 1270 | 0 | 2 | 2 |
| Sulfur | ppm | ASTM D5185m 2060 | 1261 | 561 | 758 |

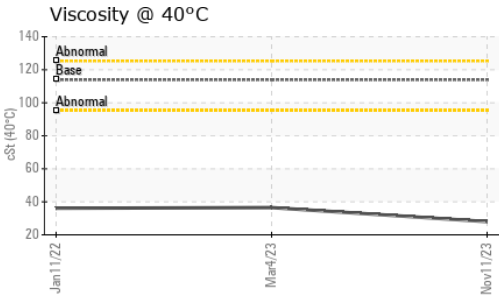
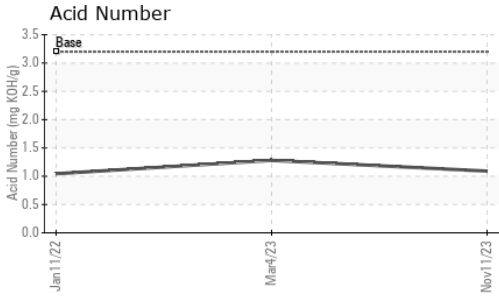
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >20 | 4 | 4 | 5 |
| Sodium | ppm | ASTM D5185m | 4 | 3 | 6 |
| Potassium | ppm | ASTM D5185m >20 | <1 | 3 | 3 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 3.2 | 1.09 | 1.28 | 1.044 |

OIL ANALYSIS REPORT



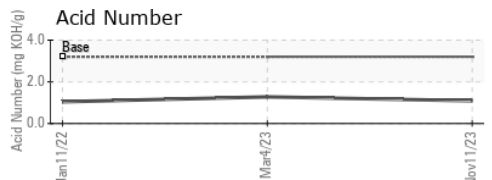
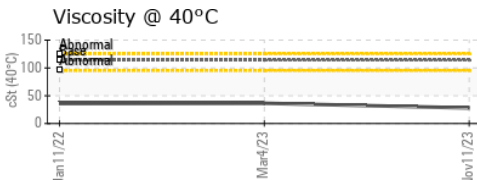
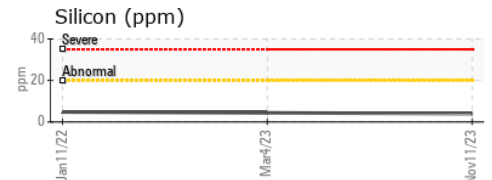
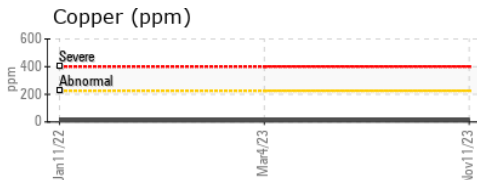
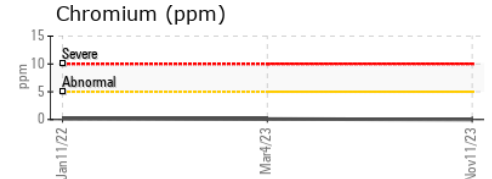
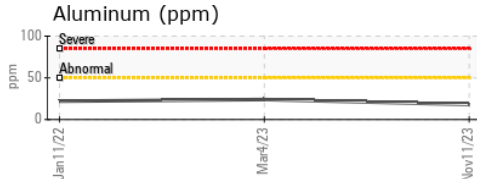
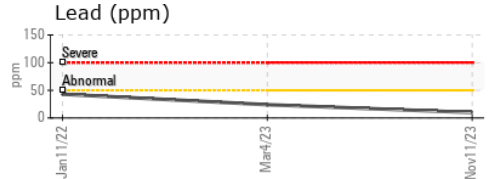
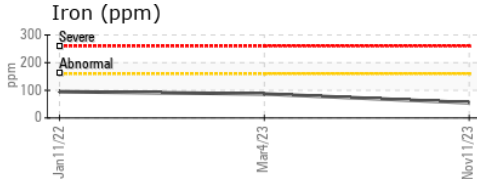
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | 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 | >0.1 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|------|
| Visc @ 40°C | cSt | ASTM D445 | 113.9 | 28.0 | 36.5 | 36.1 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|

| | | | | | | |
|--------|--|--|--|----------|----------|----------|
| Color | | | | no image | no image | no image |
| Bottom | | | | no image | no image | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0104680 **Received** : 16 Nov 2023
Lab Number : 06010248 **Diagnosed** : 20 Nov 2023
Unique Number : 10749392 **Diagnostician** : Don Baldrige
Test Package : MOB 2

PLYMOUTH & BROCKTON
 8 INDUSTRIAL PARK RD
 PLYMOUTH, MA
 US 02360
 Contact: Donald Pelquin
 Dpelquin@P-B.com
 T: (508)732-6039
 F: (508)732-6091

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)