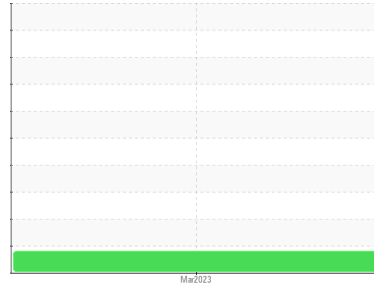


PROBLEM SUMMARY

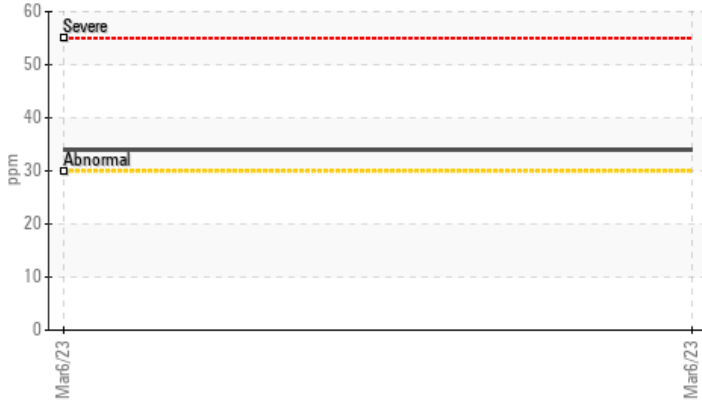
Area
(90251X) Walgreens
 Machine Id
[Walgreens] 136A66090
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Aluminum (ppm)



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | ABNORMAL | --- | --- |
|---------------|-----|-------------|-----|----------|-----|-----|
| Aluminum | ppm | ASTM D5185m | >30 | ▲ 34 | --- | --- |

Customer Id: TSV1370
 Sample No.: PCA0092839
 Lab Number: 05788950
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:

Sean Felton +1 919-379-4092
sfelton@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

Sample Rating Trend

WEAR



Area
(90251X) Walgreens
Machine Id
[Walgreens] 136A66090
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)



DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
The aluminum level is abnormal. All other 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 INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-----------------|--------------------|----------|----------|
| Sample Number | Client Info | PCA0092839 | --- | --- |
| Sample Date | Client Info | 06 Mar 2023 | --- | --- |
| Machine Age | mls Client Info | 660911 | --- | --- |
| Oil Age | mls Client Info | 50000 | --- | --- |
| Oil Changed | Client Info | Changed | --- | --- |
| Sample Status | | ABNORMAL | --- | --- |

CONTAMINATION

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

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron | ppm ASTM D5185m >80 | 58 | --- | --- |
| Chromium | ppm ASTM D5185m >5 | 4 | --- | --- |
| Nickel | ppm ASTM D5185m >2 | 0 | --- | --- |
| Titanium | ppm ASTM D5185m | 0 | --- | --- |
| Silver | ppm ASTM D5185m >3 | <1 | --- | --- |
| Aluminum | ppm ASTM D5185m >30 | ▲ 34 | --- | --- |
| Lead | ppm ASTM D5185m >30 | 0 | --- | --- |
| Copper | ppm ASTM D5185m >150 | 8 | --- | --- |
| Tin | ppm ASTM D5185m >5 | <1 | --- | --- |
| Vanadium | ppm ASTM D5185m | 0 | --- | --- |
| Cadmium | ppm ASTM D5185m | 0 | --- | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|------------|----------------------|--------------|----------|----------|
| Boron | ppm ASTM D5185m 2 | 4 | --- | --- |
| Barium | ppm ASTM D5185m 0 | 0 | --- | --- |
| Molybdenum | ppm ASTM D5185m 50 | 66 | --- | --- |
| Manganese | ppm ASTM D5185m 0 | <1 | --- | --- |
| Magnesium | ppm ASTM D5185m 950 | 943 | --- | --- |
| Calcium | ppm ASTM D5185m 1050 | 1119 | --- | --- |
| Phosphorus | ppm ASTM D5185m 995 | 974 | --- | --- |
| Zinc | ppm ASTM D5185m 1180 | 1263 | --- | --- |
| Sulfur | ppm ASTM D5185m 2600 | 3002 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|-----------|---------------------|--------------|----------|----------|
| Silicon | ppm ASTM D5185m >20 | 7 | --- | --- |
| Sodium | ppm ASTM D5185m | 2 | --- | --- |
| Potassium | ppm ASTM D5185m >20 | <1 | --- | --- |

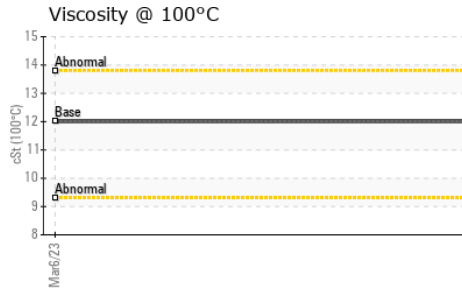
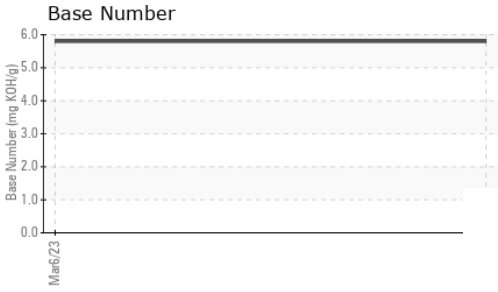
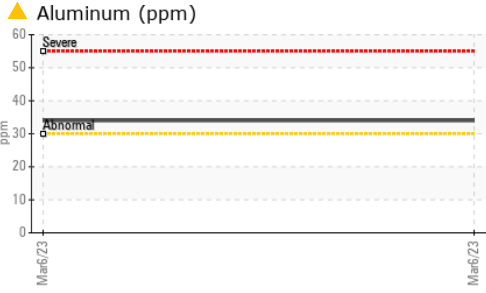
INFRA-RED

| method | limit/base | current | history1 | history2 |
|-----------|--------------------------|-------------|----------|----------|
| Soot % | % *ASTM D7844 >3 | 1.5 | --- | --- |
| Nitration | Abs/cm *ASTM D7624 >20 | 11.6 | --- | --- |
| Sulfation | Abs/.1mm *ASTM D7415 >30 | 25.2 | --- | --- |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|------------------|--------------------------|-------------|----------|----------|
| Oxidation | Abs/.1mm *ASTM D7414 >25 | 20.1 | --- | --- |
| Base Number (BN) | mg KOH/g ASTM D2896 | 5.8 | --- | --- |

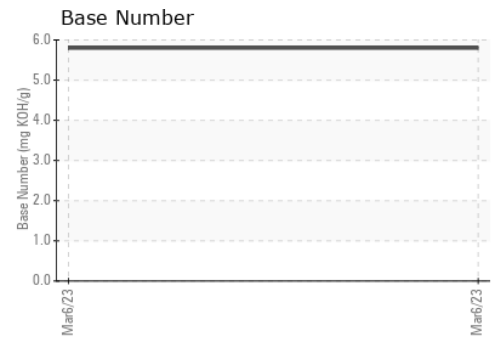
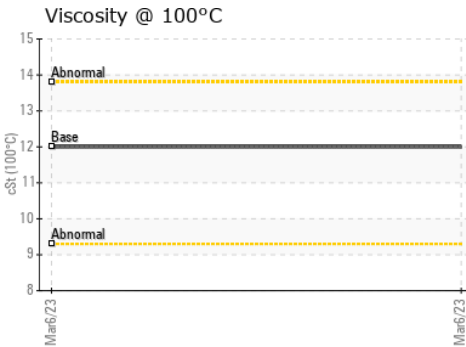
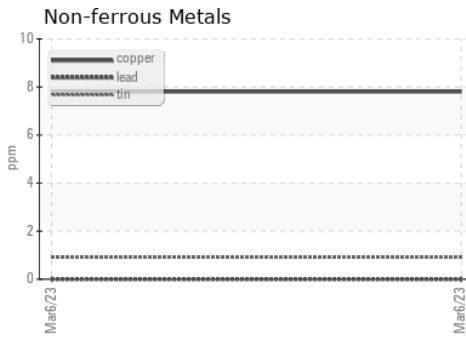
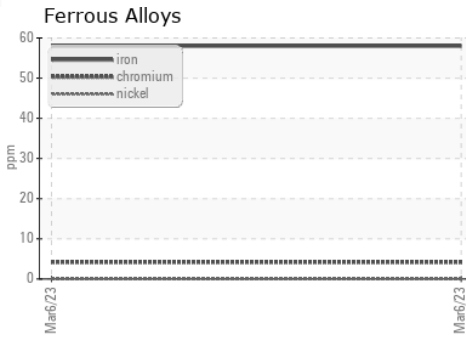
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | --- | --- |
| Free Water | scalar | *Visual | | NEG | --- | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-----|
| Visc @ 100°C | cSt | ASTM D445 | 12.00 | 12.0 | --- | --- |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0092839 **Received** : 10 Mar 2023
Lab Number : 05788950 **Diagnosed** : 13 Mar 2023
Unique Number : 10373621 **Diagnostician** : Sean Felton
Test Package : FLEET

Transervice - Shop 1370 - Berkeley-Perrysburg
 28727 Oregon Road
 Perrysburg, OH
 US 43551
 Contact: Curtis Hart
 chart@transervice.com
 T: (419)666-3277
 F: (419)666-3279

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)