

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area
(AP18JZ) Walgreens - Yard Horse
 Machine Id
[Walgreens - Yard Horse] 136A82253
 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

Metal levels are typical for a new component breaking in.

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 | history 1 | history 2 |
|---------------|-------------|-------------|--------------------|-----------|-----------|
| Sample Number | Client Info | | PCA0094364 | --- | --- |
| Sample Date | Client Info | | 24 Jun 2023 | --- | --- |
| Machine Age | mls | Client Info | 2635 | --- | --- |
| Oil Age | mls | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | Changed | --- | --- |
| Sample Status | | | NORMAL | --- | --- |

CONTAMINATION

| | method | limit/base | current | history 1 | history 2 |
|--------|-----------|------------|----------------|-----------|-----------|
| Fuel | WC Method | >5 | <1.0 | --- | --- |
| Glycol | WC Method | | NEG | --- | --- |

WEAR METALS

| | method | limit/base | current | history 1 | history 2 |
|----------|--------|------------------|--------------|-----------|-----------|
| Iron | ppm | ASTM D5185m >100 | 126 | --- | --- |
| Chromium | ppm | ASTM D5185m >20 | 2 | --- | --- |
| Nickel | ppm | ASTM D5185m >4 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | <1 | --- | --- |
| Silver | ppm | ASTM D5185m >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >20 | 7 | --- | --- |
| Lead | ppm | ASTM D5185m >40 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m >330 | 93 | --- | --- |
| Tin | ppm | ASTM D5185m >15 | 1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185m | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history 1 | history 2 |
|------------|--------|------------------|-------------|-----------|-----------|
| Boron | ppm | ASTM D5185m 2 | 32 | --- | --- |
| Barium | ppm | ASTM D5185m 0 | 5 | --- | --- |
| Molybdenum | ppm | ASTM D5185m 50 | 97 | --- | --- |
| Manganese | ppm | ASTM D5185m 0 | 8 | --- | --- |
| Magnesium | ppm | ASTM D5185m 950 | 158 | --- | --- |
| Calcium | ppm | ASTM D5185m 1050 | 2332 | --- | --- |
| Phosphorus | ppm | ASTM D5185m 995 | 1144 | --- | --- |
| Zinc | ppm | ASTM D5185m 1180 | 1390 | --- | --- |
| Sulfur | ppm | ASTM D5185m 2600 | 4243 | --- | --- |

CONTAMINANTS

| | method | limit/base | current | history 1 | history 2 |
|-----------|--------|-----------------|-----------|-----------|-----------|
| Silicon | ppm | ASTM D5185m >25 | 31 | --- | --- |
| Sodium | ppm | ASTM D5185m | 7 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | 3 | --- | --- |

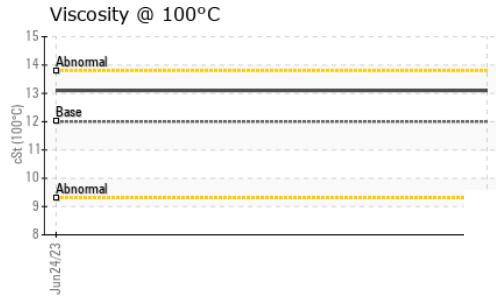
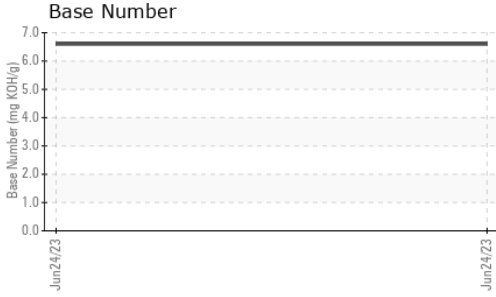
INFRA-RED

| | method | limit/base | current | history 1 | history 2 |
|-----------|----------|-----------------|-------------|-----------|-----------|
| Soot % | % | *ASTM D7844 >3 | 0.7 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 >20 | 9.8 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 22.5 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history 1 | history 2 |
|------------------|----------|-----------------|-------------|-----------|-----------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 19.2 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 6.6 | --- | --- |

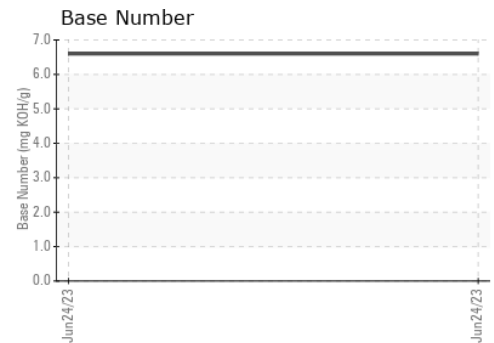
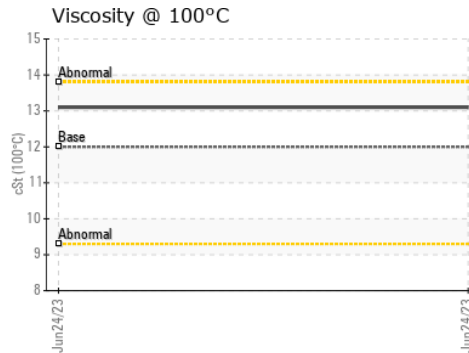
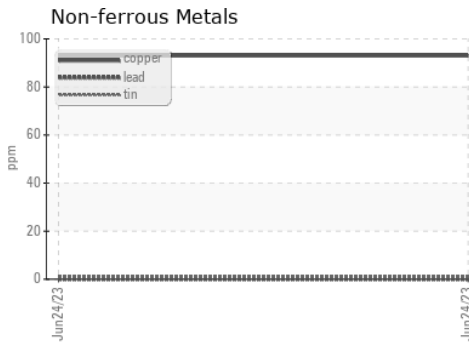
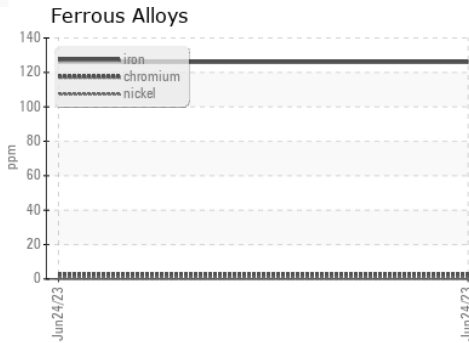
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history 1 | history 2 | |
|------------------|--------|------------|---------|-----------|-----------|-----|
| 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 | history 1 | history 2 | |
|------------------|--------|------------|---------|-------------|-----------|-----|
| Visc @ 100°C | cSt | ASTM D445 | 12.00 | 13.1 | --- | --- |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0094364 **Received** : 30 Jun 2023
Lab Number : 05888266 **Diagnosed** : 04 Jul 2023
Unique Number : 10538749 **Diagnostician** : Don Baldrige
Test Package : FLEET

Transervice - Shop 1363 - Berkeley-Orlando
 2455 Premier Row
 Orlando, FL
 US 32809
 Contact: James Bennett
 jbennett@transervice.com
 T: (407)856-8590
 F: (407)856-2269

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)