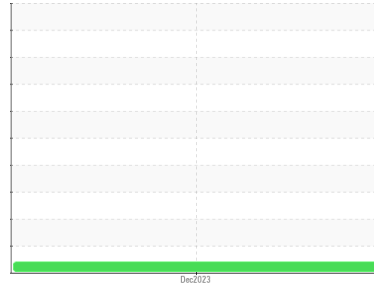


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
(3130697) Dairy Farms of America-Tractor
 Machine Id
[Dairy Farms of America-Tractor] 268A722018
 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. 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 oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | PCA0103925 | --- | --- |
| Sample Date | Client Info | | 01 Dec 2023 | --- | --- |
| Machine Age | mls | Client Info | 201785 | --- | --- |
| Oil Age | mls | Client Info | 40000 | --- | --- |
| Oil Changed | Client Info | | Changed | --- | --- |
| Sample Status | | | ATTENTION | --- | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >5 | <1.0 | --- | --- |
| Water | WC Method | >0.2 | NEG | --- | --- |
| Glycol | WC Method | | NEG | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >80 | 18 | --- | --- |
| Chromium | ppm | ASTM D5185m >5 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m >2 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | <1 | --- | --- |
| Silver | ppm | ASTM D5185m >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >30 | 4 | --- | --- |
| Lead | ppm | ASTM D5185m >30 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m >150 | 7 | --- | --- |
| 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 | 103 | --- | --- |
| Barium | ppm | ASTM D5185m 0 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m 50 | 98 | --- | --- |
| Manganese | ppm | ASTM D5185m 0 | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m 950 | 512 | --- | --- |
| Calcium | ppm | ASTM D5185m 1050 | 1340 | --- | --- |
| Phosphorus | ppm | ASTM D5185m 995 | 713 | --- | --- |
| Zinc | ppm | ASTM D5185m 1180 | 848 | --- | --- |
| Sulfur | ppm | ASTM D5185m 2600 | 2223 | --- | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m >20 | 6 | --- | --- |
| Sodium | ppm | ASTM D5185m | 2 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | 4 | --- | --- |

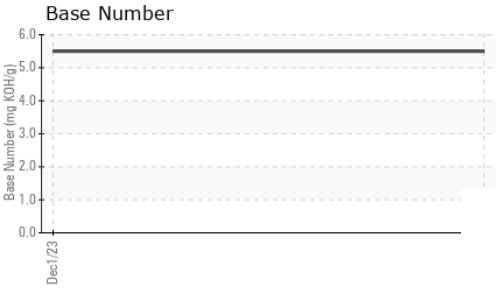
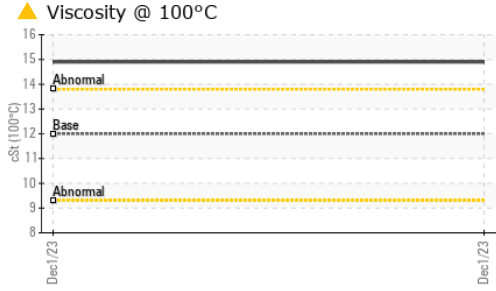
INFRA-RED

| | method | limit/base | current | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 >3 | 0.7 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 >20 | 9.4 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 24.2 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 20.0 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 5.5 | --- | --- |

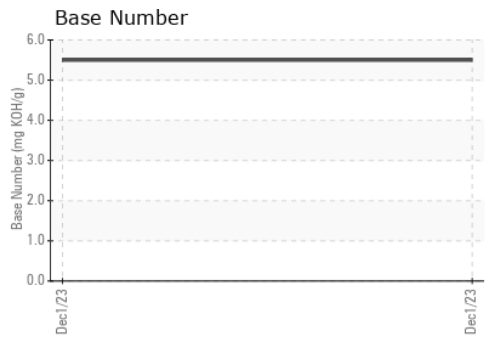
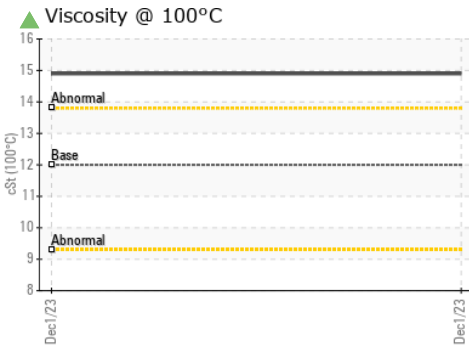
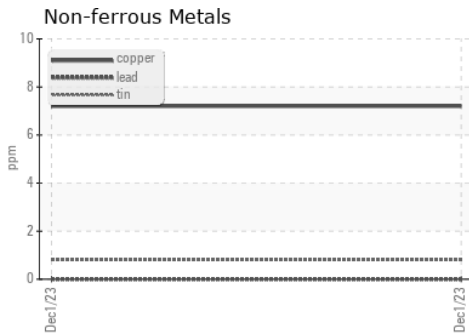
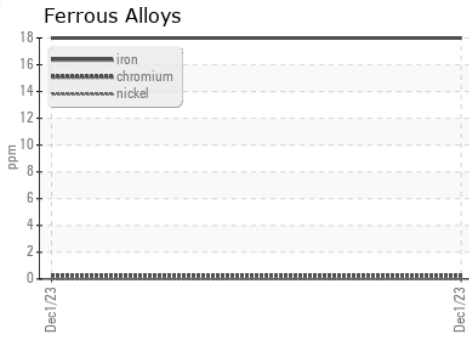
OIL ANALYSIS REPORT



| 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 | ▲ 14.9 | --- |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0103925 **Received** : 01 Feb 2024
Lab Number : **06077510** **Diagnosed** : 04 Feb 2024
Unique Number : 10859601 **Diagnostician** : Don Baldrige
Test Package : FLEET

Transervice - Shop 2680 - LeMars
 1330 12th Ave SW
 LeMars, IA
 US 51031
 Contact: Stacey Rabey
 srabey@transervice.com
 T: (712)501-9908
 F:

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)