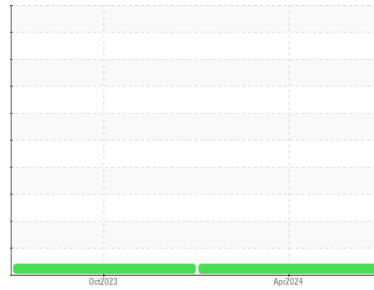


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
(2432779) Dairy Farms of America-Tractor
 Machine Id
[Dairy Farms of America-Tractor] 268A26303
 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. Confirm oil type.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number | Client Info | | | PCA0103921 | PCA0108280 | --- |
| Sample Date | Client Info | | | 09 Apr 2024 | 06 Oct 2023 | --- |
| Machine Age | mls | Client Info | | 539163 | 500730 | --- |
| Oil Age | mls | Client Info | | 40000 | 30000 | --- |
| Oil Changed | Client Info | | | Changed | Changed | --- |
| Sample Status | | | | ATTENTION | ATTENTION | --- |

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

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >80 | 23 | 23 | --- |
| Chromium | ppm | ASTM D5185m | >5 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >2 | 0 | <1 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >30 | 9 | 10 | --- |
| Lead | ppm | ASTM D5185m | >30 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m | >150 | 3 | 2 | --- |
| Tin | ppm | ASTM D5185m | >5 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | --- |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | --- |

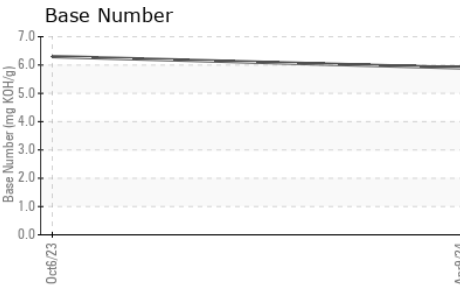
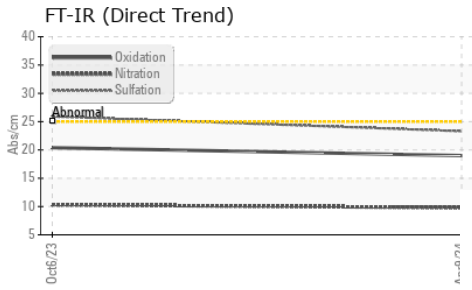
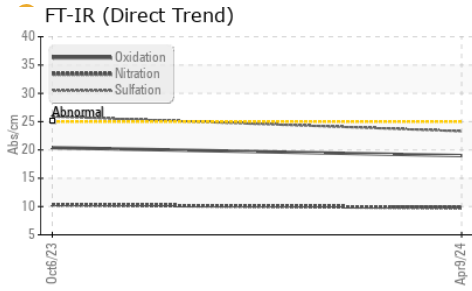
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 2 | 9 | 105 | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | 7 | --- |
| Molybdenum | ppm | ASTM D5185m | 50 | 70 | 134 | --- |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | 950 | 883 | 681 | --- |
| Calcium | ppm | ASTM D5185m | 1050 | 1129 | 1788 | --- |
| Phosphorus | ppm | ASTM D5185m | 995 | 958 | 991 | --- |
| Zinc | ppm | ASTM D5185m | 1180 | 1204 | 1147 | --- |
| Sulfur | ppm | ASTM D5185m | 2600 | 3067 | 3829 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >20 | 5 | 7 | --- |
| Sodium | ppm | ASTM D5185m | | 1 | <1 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 3 | --- |

| INFRA-RED | | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 | >3 | 0.9 | 0.9 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.8 | 10.3 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.3 | 25.9 | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|-------------|------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.0 | 20.4 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 5.9 | 6.3 | --- |

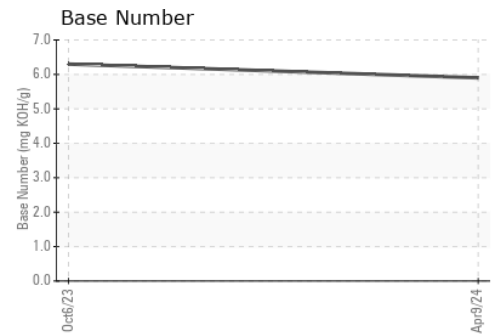
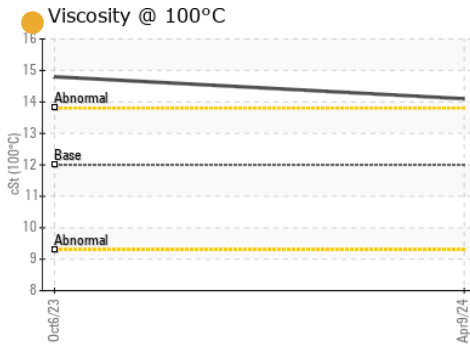
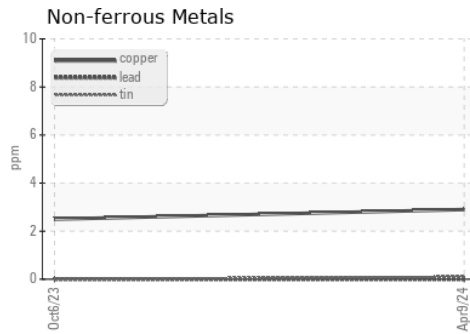
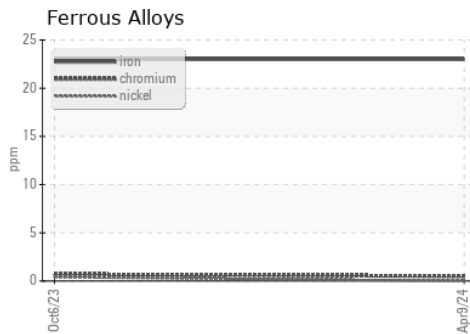
OIL ANALYSIS REPORT



| PARAMETER | 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 | --- |

| PARAMETER | method | limit/base | current | history1 | history2 |
|--------------|--------|------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 12.00 | 14.1 | 14.8 |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0103921
Lab Number : 06158877
Unique Number : 10994300
Test Package : FLEET

Received : 24 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 26 Apr 2024 - Jonathan Hester

Transervice - Shop 2680 - LeMars
 1330 12th Ave SW
 LeMars, IA
 US 51031

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)

Contact: Stacey Rabey
 srabey@transervice.com
 T: (712)501-9908
 F: