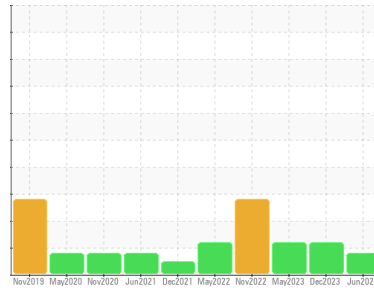




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
SECONDARY CHILL CHAMBER
 Machine Id
STROETER 15 - SECONDARY (S/N 201609-0104)
 Component
Gearbox
 Fluid
PETRO CANADA PURITY FG SYNTH EP GEAR 220 (5 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present 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 | | USP0012482 | USP0005339 | USP243734 |
| Sample Date | Client Info | | 06 Jun 2024 | 03 Dec 2023 | 27 May 2023 |
| Machine Age | mths | Client Info | 0 | 0 | 10 |
| Oil Age | mths | Client Info | 0 | 0 | 10 |
| Oil Changed | Client Info | | N/A | N/A | Changed |
| Sample Status | | | ATTENTION | ABNORMAL | ABNORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >200 | 15 | 10 | 26 |
| Chromium | ppm | ASTM D5185m >15 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m >15 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >25 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m >100 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m >200 | 0 | 0 | 0 |
| Tin | ppm | ASTM D5185m >25 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 1 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | 458 | 434 | 448 |
| Zinc | ppm | ASTM D5185m | 2 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | 1123 | 1003 | 1226 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >50 | 1 | 1 | 2 |
| Sodium | ppm | ASTM D5185m | 0 | 0 | <1 |
| Potassium | ppm | ASTM D5185m >20 | <1 | 0 | 0 |
| Water | % | ASTM D6304 >0.2 | 0.008 | 0.006 | 0.011 |
| ppm Water | ppm | ASTM D6304 >2000 | 82 | 62 | 119.1 |

FLUID CLEANLINESS

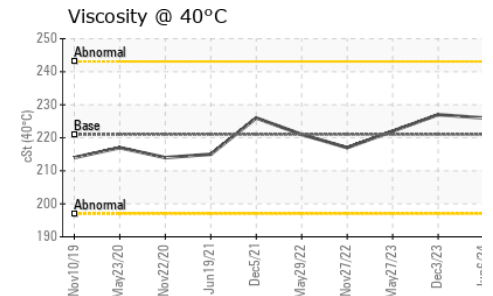
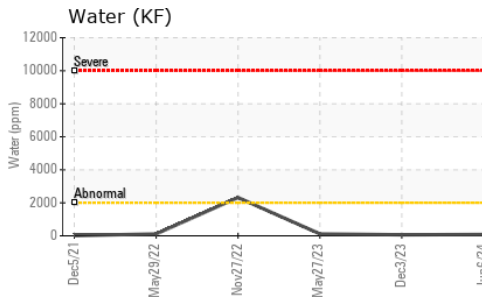
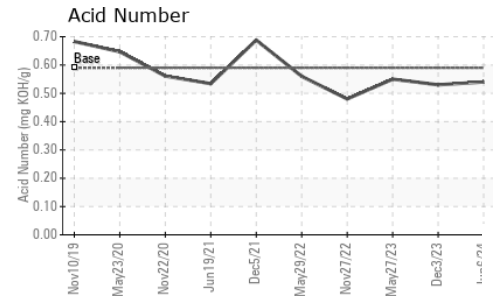
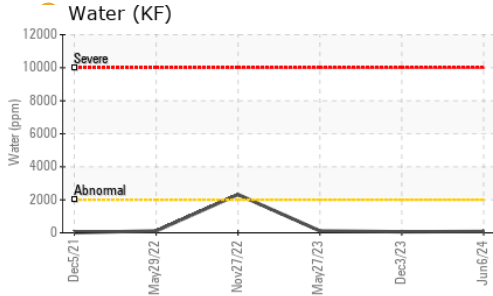
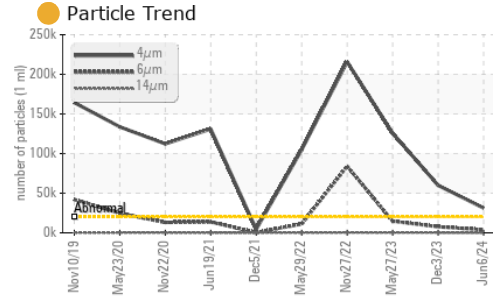
| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | >20000 | 31209 | 59870 | 125728 |
| Particles >6µm | ASTM D7647 | >5000 | 3826 | 7627 | 14659 |
| Particles >14µm | ASTM D7647 | >640 | 42 | 110 | 100 |
| Particles >21µm | ASTM D7647 | >160 | 6 | 17 | 11 |
| Particles >38µm | ASTM D7647 | >40 | 1 | 1 | 1 |
| Particles >71µm | ASTM D7647 | >10 | 0 | 0 | 1 |
| Oil Cleanliness | ISO 4406 (c) | >21/19/16 | 22/19/13 | 23/20/14 | 24/21/14 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.59 | 0.54 | 0.53 | 0.55 |



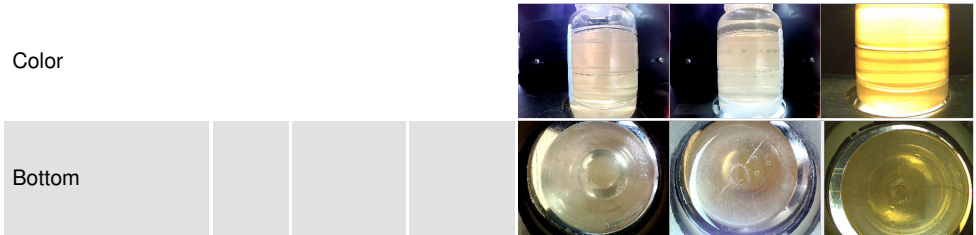
OIL ANALYSIS REPORT



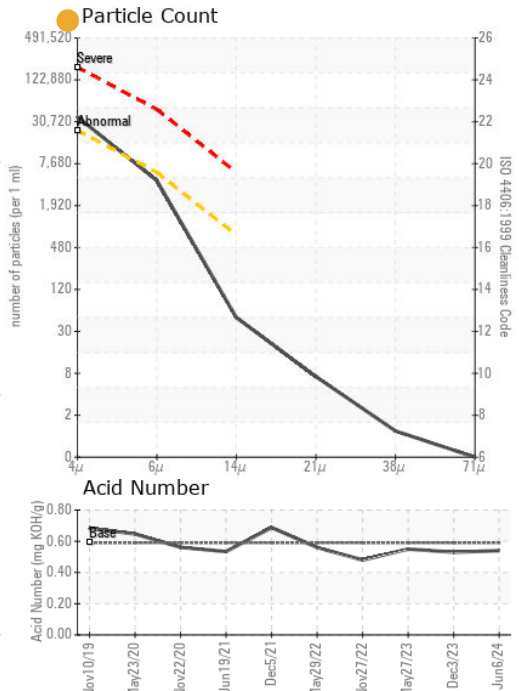
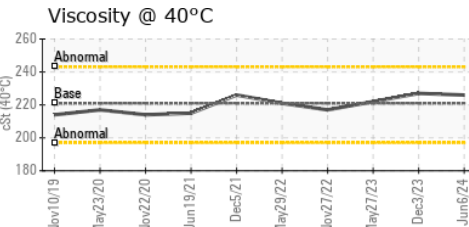
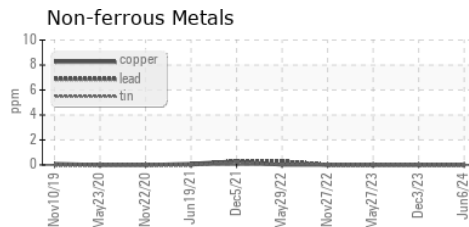
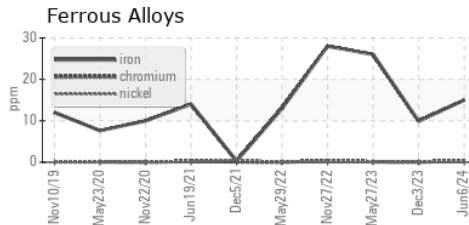
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | 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 | >0.2 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 221 | 226 | 227 |

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



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : USP0012482
 Lab Number : 06202776
 Unique Number : 11070237
 Test Package : IND 2

Received : 07 Jun 2024
 Tested : 10 Jun 2024
 Diagnosed : 11 Jun 2024 - Doug Bogart

TYSON - SMART CHICKEN MBA
 333 SOUTH 3RD ST
 TECUMSEH, NE
 US 68450
 Contact: DAVE BILLUPS
 dbillups@smartchicken.com
 T: (402)786-1000
 F: (402)335-2502

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)