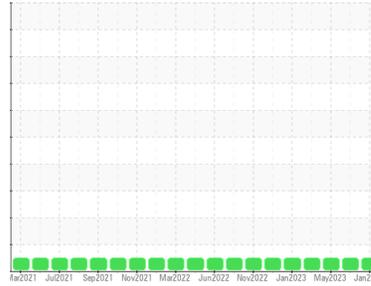




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Pillen Family Farms
 Machine Id
MILTK42

Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

Recommendation

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 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 | SBP0006169 | SBP0002401 | SBP0002381 |
| Sample Date | Client Info | 12 Jan 2024 | 22 Jun 2023 | 03 May 2023 |
| Machine Age | hrs | Client Info | 350 | 0 |
| Oil Age | hrs | Client Info | 350 | 0 |
| Oil Changed | Client Info | Not Chngd | N/A | N/A |
| Sample Status | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

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

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron | ppm ASTM D5185m >100 | 6 | 7 | 11 |
| Chromium | ppm ASTM D5185m >20 | <1 | 0 | <1 |
| Nickel | ppm ASTM D5185m >4 | 0 | 0 | 0 |
| Titanium | ppm ASTM D5185m | <1 | 0 | 0 |
| Silver | ppm ASTM D5185m >3 | 0 | 0 | 0 |
| Aluminum | ppm ASTM D5185m >20 | 2 | 0 | 0 |
| Lead | ppm ASTM D5185m >40 | 2 | 0 | <1 |
| Copper | ppm ASTM D5185m >330 | <1 | 1 | <1 |
| Tin | ppm ASTM D5185m >15 | <1 | 0 | <1 |
| Vanadium | ppm ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|------------|-------------------|--------------|----------|----------|
| Boron | ppm ASTM D5185m 0 | 0 | 0 | 5 |
| Barium | ppm ASTM D5185m 0 | 0 | 0 | 0 |
| Molybdenum | ppm ASTM D5185m 0 | 61 | 55 | 58 |
| Manganese | ppm ASTM D5185m | <1 | 0 | <1 |
| Magnesium | ppm ASTM D5185m 0 | 918 | 897 | 945 |
| Calcium | ppm ASTM D5185m | 979 | 987 | 1117 |
| Phosphorus | ppm ASTM D5185m | 985 | 923 | 1014 |
| Zinc | ppm ASTM D5185m | 1173 | 1143 | 1234 |
| Sulfur | ppm ASTM D5185m | 2811 | 3397 | 3081 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|-----------|---------------------|----------|----------|----------|
| Silicon | ppm ASTM D5185m >25 | 4 | 2 | 3 |
| Sodium | ppm ASTM D5185m | 3 | 3 | 3 |
| Potassium | ppm ASTM D5185m >20 | 1 | <1 | <1 |

INFRA-RED

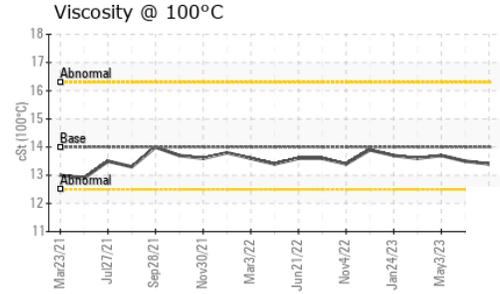
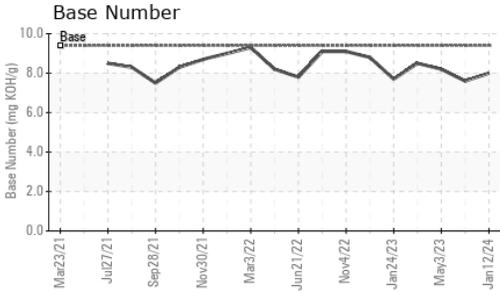
| method | limit/base | current | history1 | history2 |
|-----------|--------------------------|-------------|----------|----------|
| Soot % | % *ASTM D7844 >3 | 0.3 | 0.3 | 0.3 |
| Nitration | Abs/cm *ASTM D7624 >20 | 7.6 | 7.5 | 7.0 |
| Sulfation | Abs/.1mm *ASTM D7415 >30 | 19.5 | 20.4 | 19.3 |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|------------------|--------------------------|-------------|----------|----------|
| Oxidation | Abs/.1mm *ASTM D7414 >25 | 15.1 | 16.6 | 14.5 |
| Base Number (BN) | mg KOH/g ASTM D2896 9.4 | 8.0 | 7.6 | 8.2 |



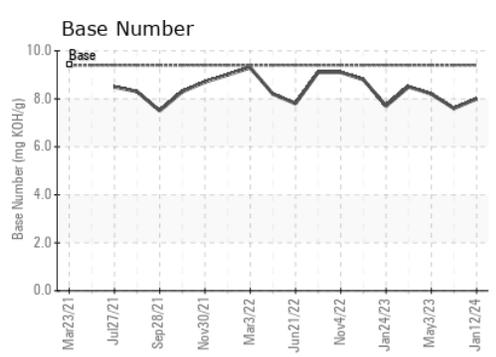
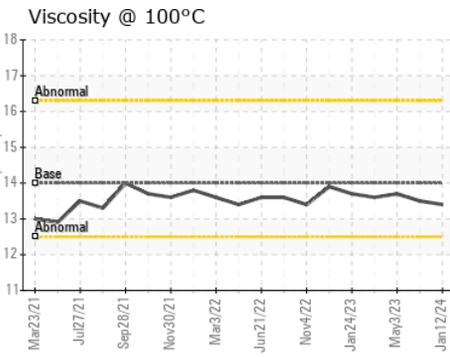
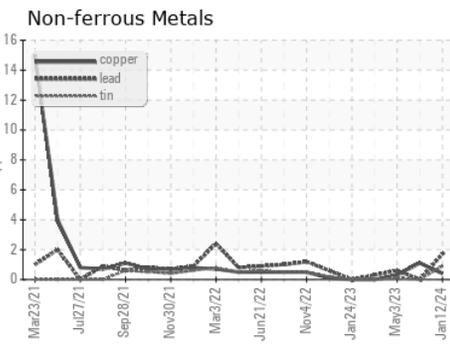
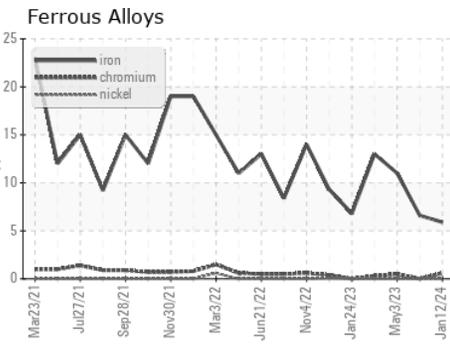
OIL ANALYSIS REPORT



| 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 @ 100°C | cSt | ASTM D445 14 | 13.4 | 13.5 | 13.7 |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0006169 **Recieved** : 01 Feb 2024
Lab Number : **06077409** **Diagnosed** : 04 Feb 2024
Unique Number : 10859500 **Diagnostician** : Don Baldrige
Test Package : FLEET

Pillen Family Farms - 722828
 26741 NE-91
 Humphrey, NE
 US 61357
 Contact: Troy Runge
 troyfr@pillenfamilyfarms.com
 T: (308)390-6733
 F:

Certificate L2367
 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)