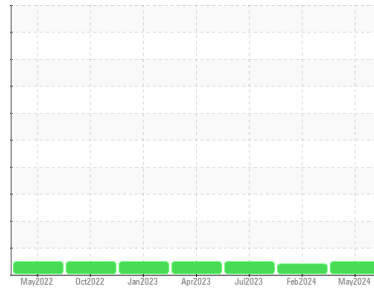




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

26

Component

Diesel Engine

Fluid

PURUS SYNTHETIC BLEND 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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 | | | RW0005300 | RW0004551 | RW0004101 |
| Sample Date | Client Info | | | 05 May 2024 | 09 Feb 2024 | 13 Jul 2023 |
| Machine Age | mls | Client Info | | 661187 | 637209 | 587996 |
| Oil Age | mls | Client Info | | 24000 | 24000 | 24000 |
| Oil Changed | Client Info | | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|----------------|----------|----------|
| Fuel | WC Method | >5 | | <1.0 | 0.5 | <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 | 17 | 30 | 6 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 6 | 1 |
| Lead | ppm | ASTM D5185m | >40 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 6 | 2 | <1 |
| Tin | ppm | ASTM D5185m | >15 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 3 | 24 | 4 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 59 | 27 | 59 |
| Manganese | ppm | ASTM D5185m | | <1 | 2 | 0 |
| Magnesium | ppm | ASTM D5185m | | 944 | 717 | 836 |
| Calcium | ppm | ASTM D5185m | | 1210 | 1247 | 1070 |
| Phosphorus | ppm | ASTM D5185m | | 1046 | 743 | 937 |
| Zinc | ppm | ASTM D5185m | | 1236 | 872 | 1127 |
| Sulfur | ppm | ASTM D5185m | | 3531 | 2771 | 2837 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | 6 | 10 | 5 |
| Sodium | ppm | ASTM D5185m | | 2 | 3 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 7 | 1 |

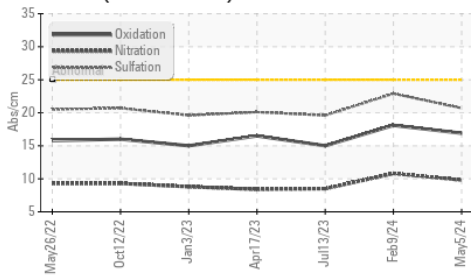
| INFRA-RED | | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 | >3 | 0.5 | 0.5 | 0.4 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.8 | 10.8 | 8.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.7 | 22.9 | 19.6 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|-------------|------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.9 | 18.1 | 15.0 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10 | 8.22 | 6.90 | 7.00 |

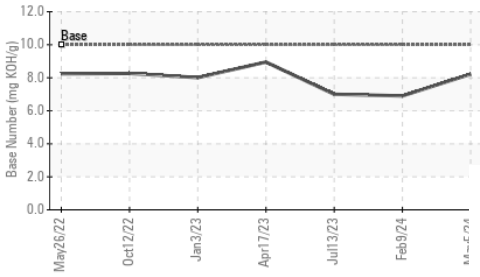


OIL ANALYSIS REPORT

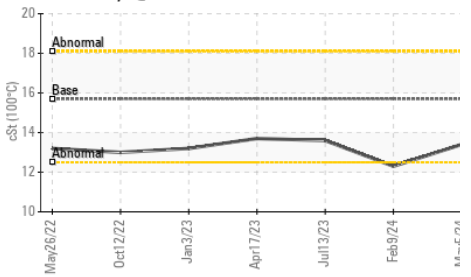
FT-IR (Direct Trend)



Base Number



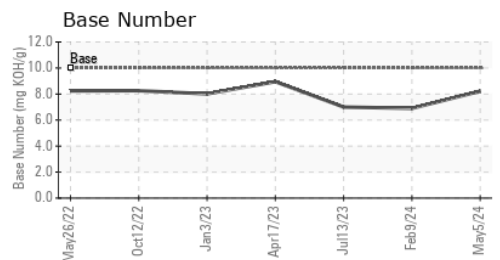
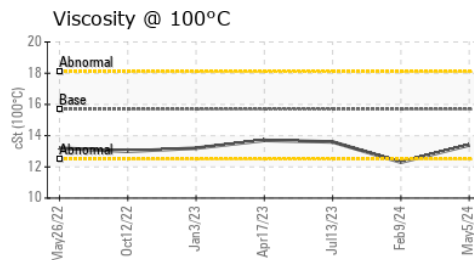
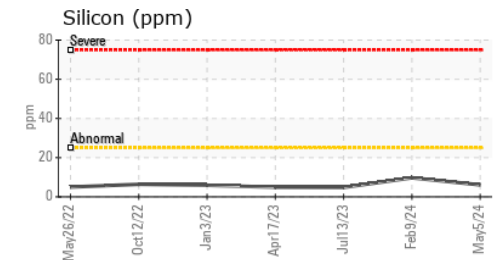
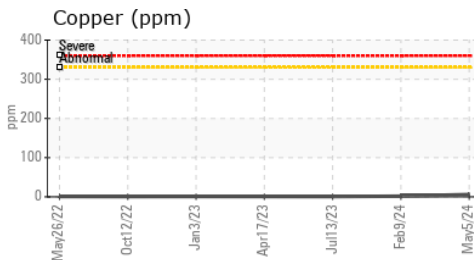
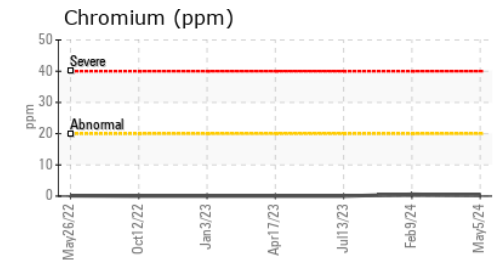
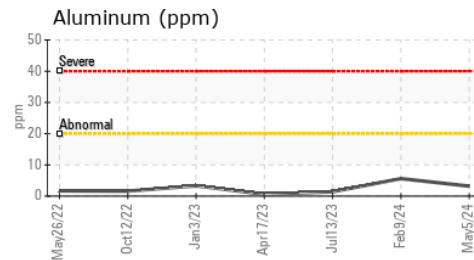
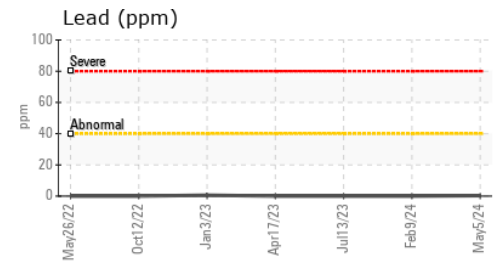
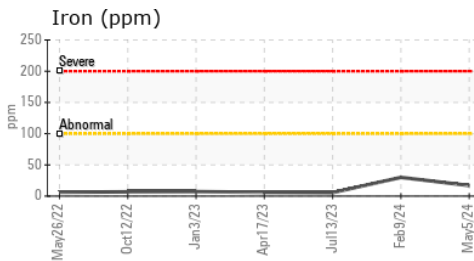
Viscosity @ 100°C



| PARAMETER | 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 | 15.7 | 13.4 | ▲ 12.3 |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : RW0005300
 Lab Number : 06202962
 Unique Number : 11070423
 Test Package : MOB 2

Received : 07 Jun 2024
 Tested : 11 Jun 2024
 Diagnosed : 11 Jun 2024 - Wes Davis

BURNETTE FOODS INC
 701 US 31 N
 ELK RAPIDS, MI
 US 49629

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: roger WILSON
 mseguin@burnettefoods.com
 T: (231)342-3688

F: