



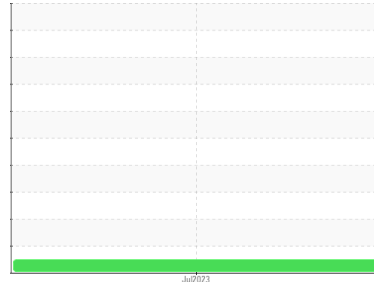
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
9029129
Component
Diesel Engine
Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on 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 | | IL05924096 | --- | --- |
| Sample Date | Client Info | | 21 Jul 2023 | --- | --- |
| Machine Age | mls Client Info | | 421145 | --- | --- |
| Oil Age | mls Client Info | | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | NORMAL | --- | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|------------|----------|----------|
| Glycol | WC Method | | NEG | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|-----------------|------------|--------------|----------|----------|
| Iron | ppm ASTM D5185m | >100 | 34 | --- | --- |
| Chromium | ppm ASTM D5185m | >20 | 1 | --- | --- |
| Nickel | ppm ASTM D5185m | >4 | 0 | --- | --- |
| Titanium | ppm ASTM D5185m | | 0 | --- | --- |
| Silver | ppm ASTM D5185m | >3 | 0 | --- | --- |
| Aluminum | ppm ASTM D5185m | >20 | 4 | --- | --- |
| Lead | ppm ASTM D5185m | >40 | <1 | --- | --- |
| Copper | ppm ASTM D5185m | >330 | <1 | --- | --- |
| Tin | ppm ASTM D5185m | >15 | <1 | --- | --- |
| Vanadium | ppm ASTM D5185m | | 0 | --- | --- |
| Cadmium | ppm ASTM D5185m | | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|-----------------|------------|--------------|----------|----------|
| Boron | ppm ASTM D5185m | | 23 | --- | --- |
| Barium | ppm ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm ASTM D5185m | | 45 | --- | --- |
| Manganese | ppm ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm ASTM D5185m | | 518 | --- | --- |
| Calcium | ppm ASTM D5185m | | 1675 | --- | --- |
| Phosphorus | ppm ASTM D5185m | | 740 | --- | --- |
| Zinc | ppm ASTM D5185m | | 913 | --- | --- |
| Sulfur | ppm ASTM D5185m | | 2719 | --- | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|-----------------|------------|----------------|----------|----------|
| Silicon | ppm ASTM D5185m | >25 | 7 | --- | --- |
| Sodium | ppm ASTM D5185m | | 3 | --- | --- |
| Potassium | ppm ASTM D5185m | >20 | 1 | --- | --- |
| Fuel | % ASTM D3524 | >5 | <1.0 | --- | --- |

INFRA-RED

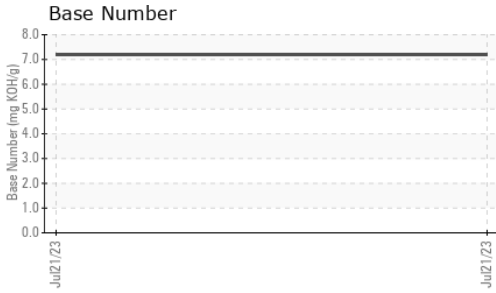
| | method | limit/base | current | history1 | history2 |
|-----------|----------------------|------------|-------------|----------|----------|
| Soot % | % *ASTM D7844 | >3 | 0.4 | --- | --- |
| Nitration | Abs/cm *ASTM D7624 | >20 | 11.3 | --- | --- |
| Sulfation | Abs/.1mm *ASTM D7415 | >30 | 23.6 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------------------|------------|-------------|----------|----------|
| Oxidation | Abs/.1mm *ASTM D7414 | >25 | 24.7 | --- | --- |
| Base Number (BN) | mg KOH/g ASTM D2896 | | 7.2 | --- | --- |



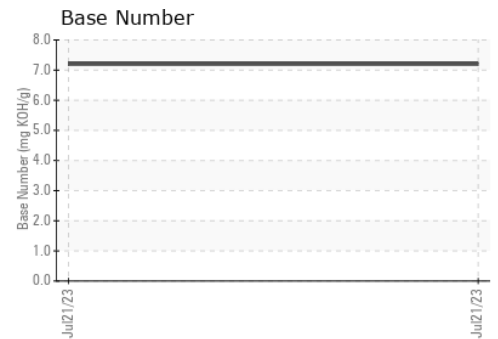
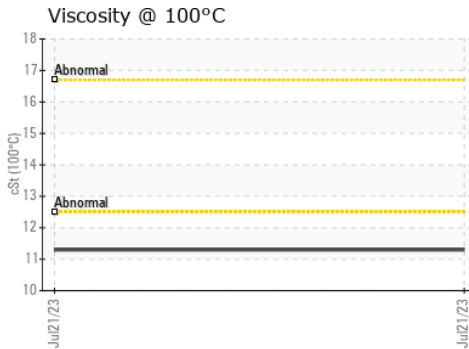
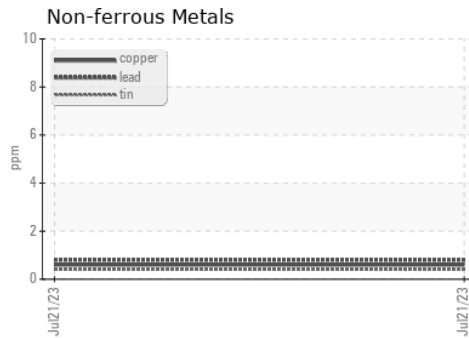
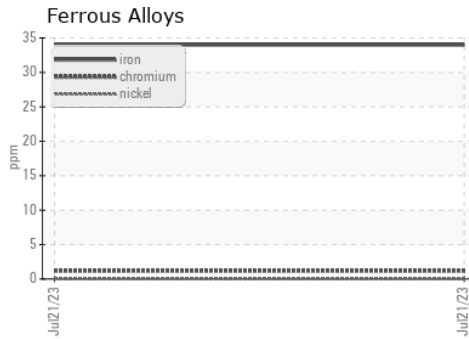
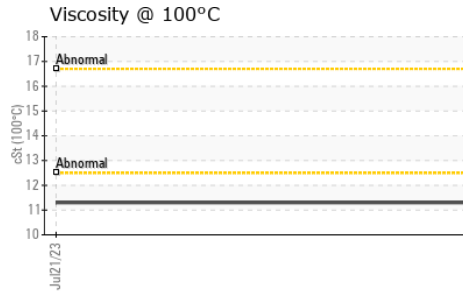
OIL ANALYSIS REPORT



| 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 | 11.3 | --- | --- |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL05924096 **Received** : 14 Aug 2023
Lab Number : 05924096 **Diagnosed** : 15 Aug 2023
Unique Number : 10604043 **Diagnostician** : Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution)

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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)