



OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
TOTE 110
 Component
New (Unused) Oil
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number | Client Info | | | TLC0001634 | --- | --- |
| Sample Date | Client Info | | | 19 Apr 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 0 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | Client Info | | | N/A | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Chromium | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Lead | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Tin | ppm | ASTM D5185m | >5 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185m | | 0 | --- | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|-------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 7 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 16 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 4180 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 924 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 1082 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 6220 | --- | --- |

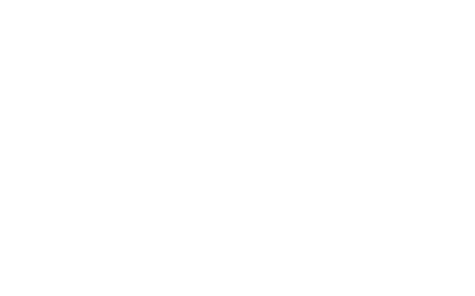
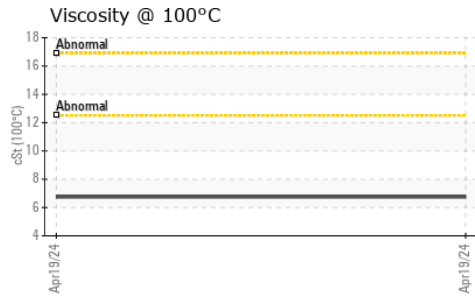
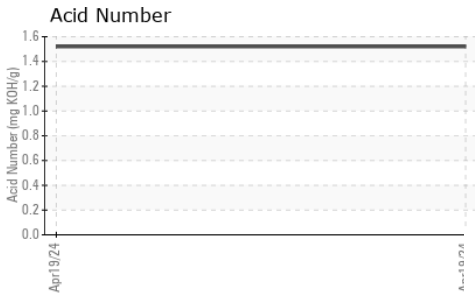
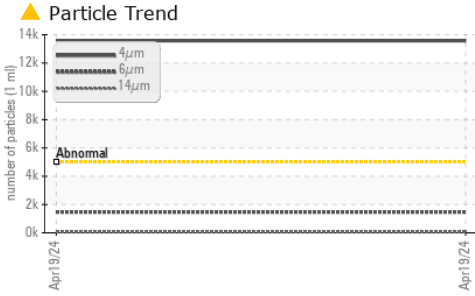
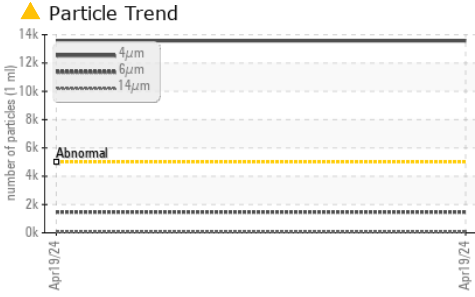
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >15 | 12 | --- | --- |
| Sodium | ppm | ASTM D5185m | | 0 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Water | % | ASTM D6304 | | NEG | --- | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--|--------------|------------|-------------------|----------|----------|
| Particles >4µm | | ASTM D7647 | >5000 | ▲ 13571 | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | ● 1468 | --- | --- |
| Particles >14µm | | ASTM D7647 | >160 | 46 | --- | --- |
| Particles >21µm | | ASTM D7647 | >40 | 13 | --- | --- |
| Particles >38µm | | ASTM D7647 | >10 | 1 | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | ▲ 21/18/13 | --- | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 1.52 | --- | --- |



OIL ANALYSIS REPORT



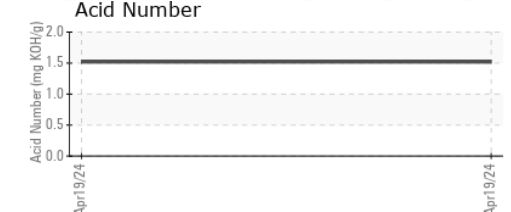
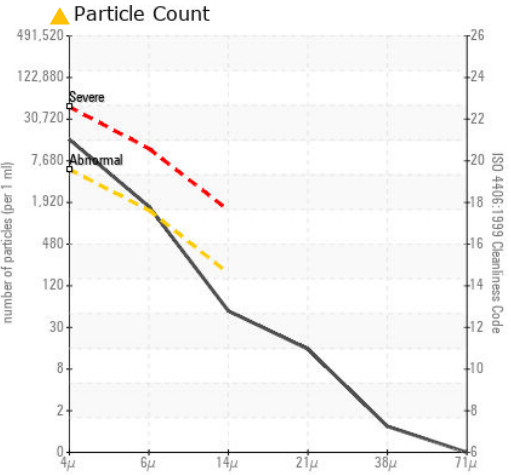
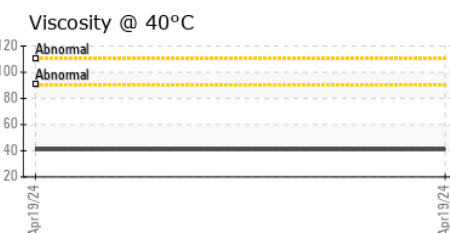
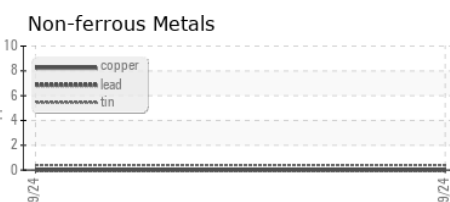
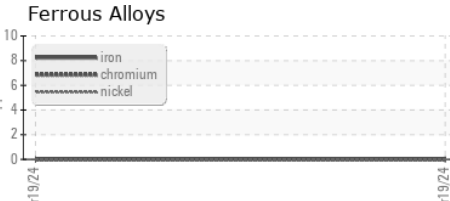
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|--------------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|----------------------|--------|------------|--------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 40.98 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 6.75 | --- | --- |
| Viscosity Index (VI) | Scale | ASTM D2270 | 120 | --- | --- |

SAMPLE IMAGES

| | method | limit/base | current | history1 | history2 |
|--------|--------|------------|---------|----------|----------|
| Color | | | | | |
| Bottom | | | | | |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TLC0001634 **Received** : 25 Apr 2024
Lab Number : 06160883 **Tested** : 30 Apr 2024
Unique Number : 10996306 **Diagnosed** : 30 Apr 2024 - Jonathan Hester
Test Package : PLANT (Additional Tests: FT-IR, ICP-NewOil, KV100, VI)

SUPPLY PRO
 115 EMPIRE WAY
 ATLANTA, GA
 US 30354

Contact: MICHAEL JACKSON

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F:

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)