

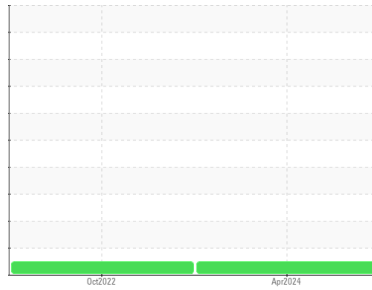


OIL ANALYSIS REPORT



Machine Id
30-88L
 Component
Transmission (Manual)
 Fluid
TDTO FLUID SAE 30 (--- GAL)

Sample Rating Trend



NORMAL



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 fluid.

Fluid Condition

The condition of the fluid is acceptable for the time in service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number | Client Info | | | WC0936888 | WC0733280 | --- |
| Sample Date | Client Info | | | 22 Apr 2024 | 15 Oct 2022 | --- |
| Machine Age | hrs | Client Info | | 3114 | 1980 | --- |
| Oil Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | Client Info | | | Not Chngd | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water | WC Method | | >0.1 | NEG | NEG | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >200 | 14 | 27 | --- |
| Chromium | ppm | ASTM D5185m | >5 | <1 | 0 | --- |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m | >7 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 0 | --- |
| Lead | ppm | ASTM D5185m | >45 | 2 | <1 | --- |
| Copper | ppm | ASTM D5185m | >225 | 12 | 21 | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | --- |

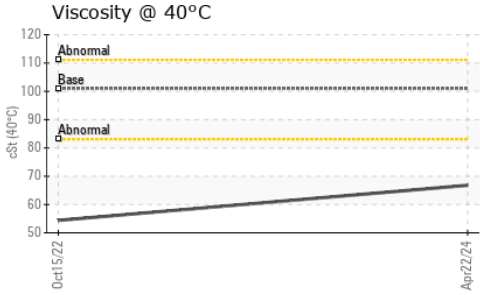
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 37 | 4 | 0 | --- |
| Barium | ppm | ASTM D5185m | 7 | <1 | <1 | --- |
| Molybdenum | ppm | ASTM D5185m | 5 | <1 | <1 | --- |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | 40 | 9 | 0 | --- |
| Calcium | ppm | ASTM D5185m | 2650 | 1746 | 94 | --- |
| Phosphorus | ppm | ASTM D5185m | 1050 | 1005 | 626 | --- |
| Zinc | ppm | ASTM D5185m | 1075 | 1088 | 801 | --- |
| Sulfur | ppm | ASTM D5185m | 5750 | 3674 | 1995 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >125 | 8 | 12 | --- |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 0 | --- |

| 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 | >0.1 | NEG | NEG | --- |
| Free Water | scalar | *Visual | | NEG | NEG | --- |



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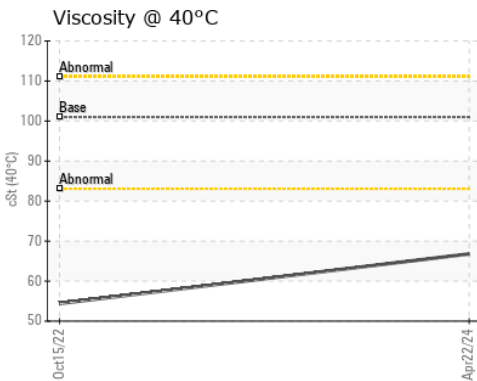
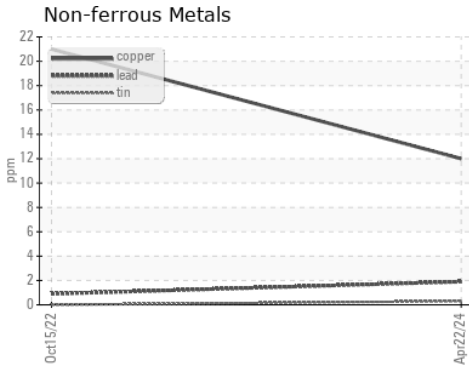
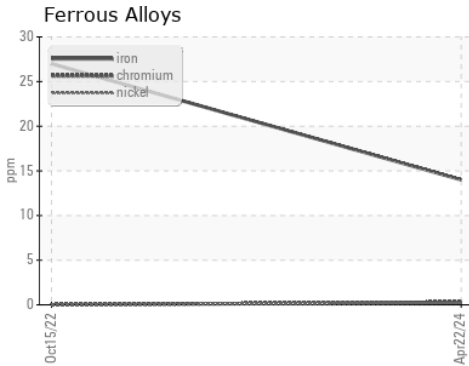


| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 101 | 66.8 | 54.4 | --- |

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

| | | | | |
|--------|--|----------|----------|----------|
| Color | | no image | no image | no image |
| Bottom | | no image | no image | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936888 **Received** : 09 May 2024
Lab Number : 06174422 **Tested** : 13 May 2024
Unique Number : 11020475 **Diagnosed** : 13 May 2024 - Don Baldrige
Test Package : CONST

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 TULSA, OK
 US 74146
 Contact: BEN CALDWELL
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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)