

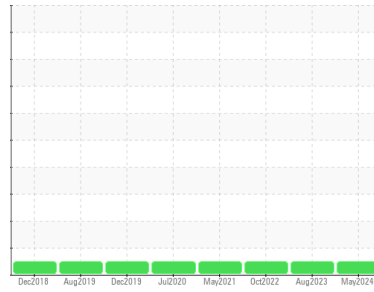


OIL ANALYSIS REPORT



Area
KANSAS/44/EG - OTHER SERVICE
 Machine Id
53.122L [KANSAS^44^EG - OTHER SERVICE]
 Component
Hydraulic System
 Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0901236 | WC0745941 | WC0741720 |
| Sample Date | Client Info | | 29 May 2024 | 04 Aug 2023 | 14 Oct 2022 |
| Machine Age | hrs | Client Info | 6600 | 4972 | 4541 |
| Oil Age | hrs | Client Info | 0 | 3660 | 3660 |
| Oil Changed | Client Info | | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

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

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|------------|----------|----------|
| Iron | ppm | ASTM D5185m >20 | 11 | 10 | 14 |
| Chromium | ppm | ASTM D5185m >10 | 0 | <1 | 1 |
| Nickel | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >10 | 1 | <1 | <1 |
| Lead | ppm | ASTM D5185m >10 | 0 | 0 | 3 |
| Copper | ppm | ASTM D5185m >75 | 4 | 4 | 7 |
| Tin | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185m | --- | --- | --- |
| 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 | 16 | 15 | 28 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 2 | 2 | 5 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 23 | 31 | 60 |
| Calcium | ppm | ASTM D5185m | 1354 | 1232 | 2152 |
| Phosphorus | ppm | ASTM D5185m | 808 | 792 | 836 |
| Zinc | ppm | ASTM D5185m | 960 | 998 | 1071 |
| Sulfur | ppm | ASTM D5185m | 3303 | 3456 | 4206 |

CONTAMINANTS

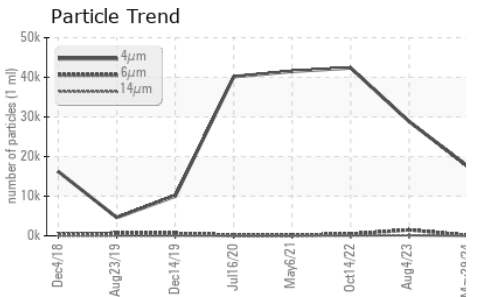
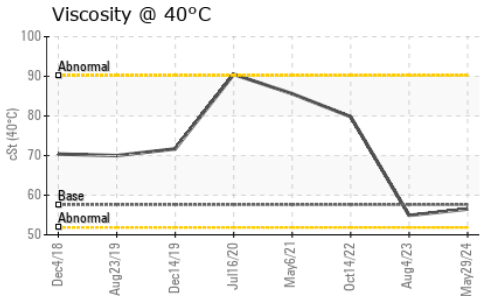
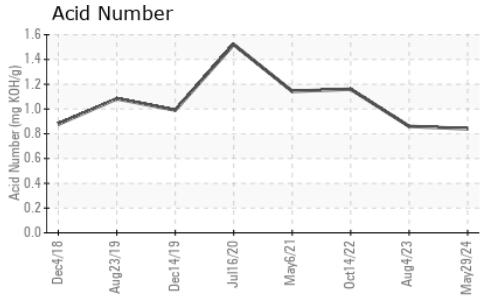
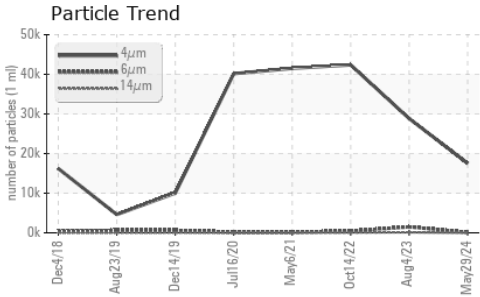
| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m >20 | 4 | 4 | 6 |
| Sodium | ppm | ASTM D5185m | 2 | 2 | <1 |
| Potassium | ppm | ASTM D5185m >20 | 0 | <1 | 0 |

FLUID CLEANLINESS

| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|----------------|----------|----------|
| Particles >4µm | ASTM D7647 | | 17549 | 28844 | 42374 |
| Particles >6µm | ASTM D7647 | >2500 | 120 | 1489 | 444 |
| Particles >14µm | ASTM D7647 | >640 | 2 | 123 | 40 |
| Particles >21µm | ASTM D7647 | >160 | 0 | 27 | 6 |
| Particles >38µm | ASTM D7647 | >40 | 0 | 0 | 0 |
| Particles >71µm | ASTM D7647 | >10 | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) | >--/18/16 | 21/14/9 | 22/18/14 | 23/16/12 |



OIL ANALYSIS REPORT

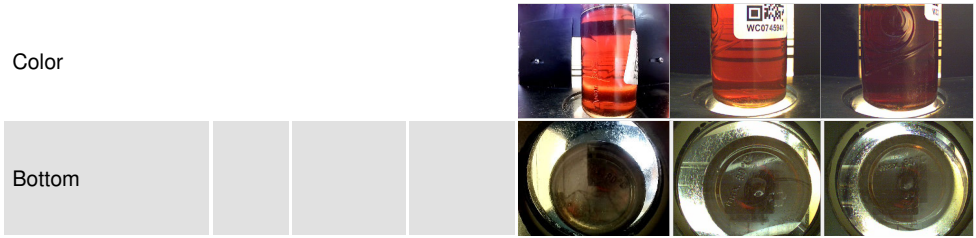


| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.84 | 0.86 | 1.16 |

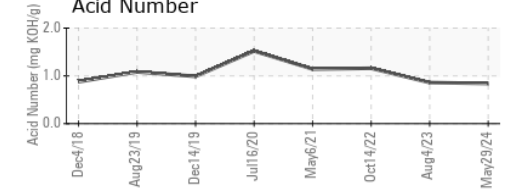
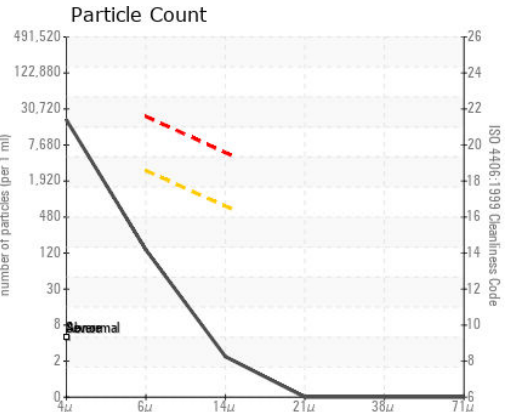
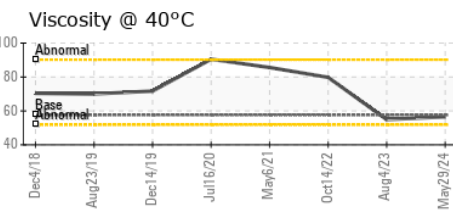
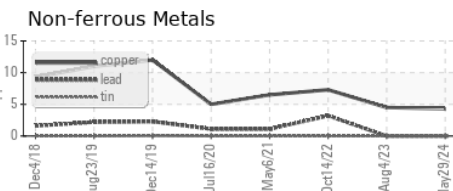
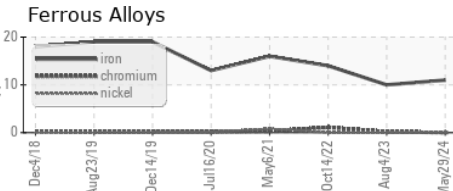
| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 57.6 | 56.5 | 54.9 | 79.8 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0901236 **Received** : 11 Jun 2024
Lab Number : 06206434 **Tested** : 13 Jun 2024
Unique Number : 11073895 **Diagnosed** : 13 Jun 2024 - Don Baldrige
Test Package : CONST

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 US 67213
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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)