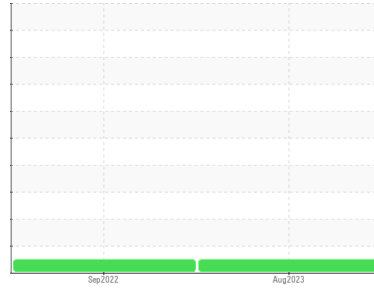




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
49814606 (S/N 13467)

Component
Hydraulic System

Fluid
MOBIL DTE 24 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

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 | | | WC0844254 | WC0731052 | --- |
| Sample Date | Client Info | | | 25 Aug 2023 | 26 Sep 2022 | --- |
| Machine Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | Client Info | | | N/A | N/A | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| PQ | | ASTM D8184 | | 17 | --- | --- |
| Iron | ppm | ASTM D5185m | >150 | 14 | 14 | --- |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | --- |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | <1 | <1 | --- |
| Lead | ppm | ASTM D5185m | >100 | 2 | 2 | --- |
| Copper | ppm | ASTM D5185m | >50 | 11 | 11 | --- |
| Tin | ppm | ASTM D5185m | >10 | 1 | 1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 0 | <1 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 2 | --- |
| Molybdenum | ppm | ASTM D5185m | | <1 | <1 | --- |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | 3 | 4 | --- |
| Calcium | ppm | ASTM D5185m | | 105 | 119 | --- |
| Phosphorus | ppm | ASTM D5185m | | 396 | 414 | --- |
| Zinc | ppm | ASTM D5185m | | 593 | 619 | --- |
| Sulfur | ppm | ASTM D5185m | | 3148 | 3746 | --- |

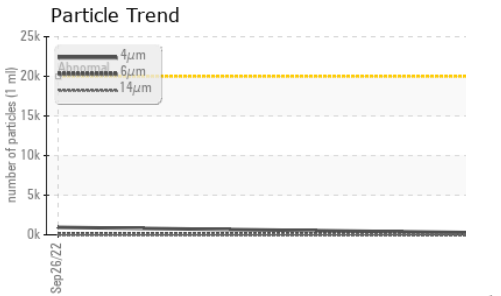
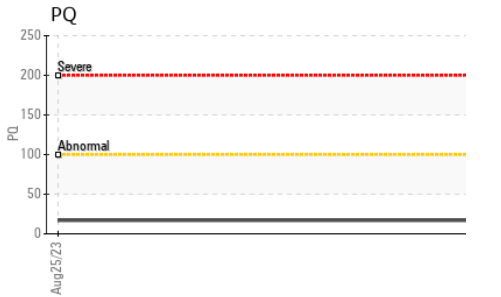
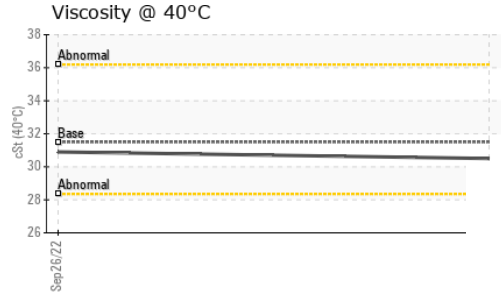
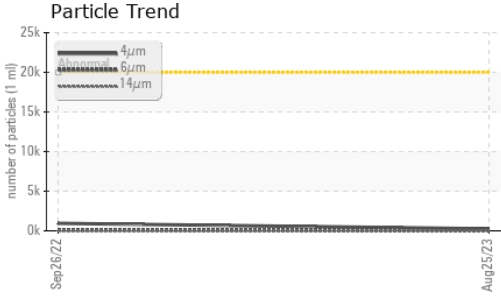
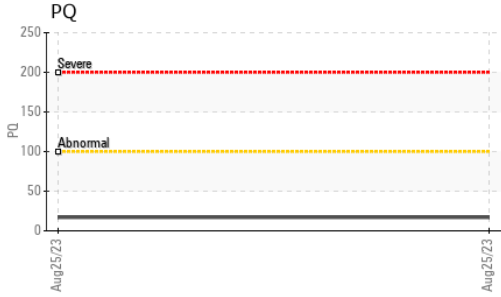
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >50 | 4 | 4 | --- |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--|--------------|------------|----------------|----------|----------|
| Particles >4µm | | ASTM D7647 | >20000 | 251 | 947 | --- |
| Particles >6µm | | ASTM D7647 | >5000 | 22 | 88 | --- |
| Particles >14µm | | ASTM D7647 | >640 | 4 | 4 | --- |
| Particles >21µm | | ASTM D7647 | >160 | 2 | 1 | --- |
| Particles >38µm | | ASTM D7647 | >40 | 0 | 0 | --- |
| Particles >71µm | | ASTM D7647 | >10 | 0 | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >21/19/16 | 15/12/9 | 17/14/9 | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.80 | 0.61 | --- |



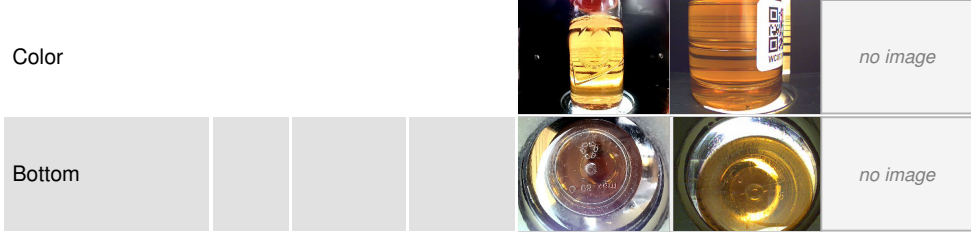
OIL ANALYSIS REPORT



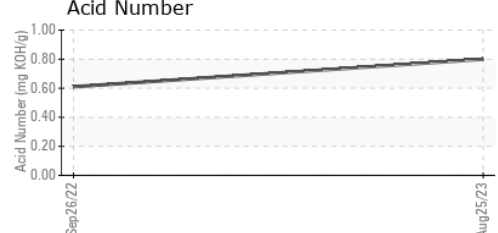
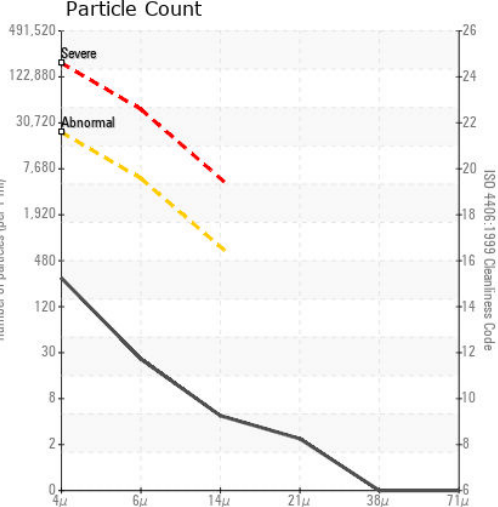
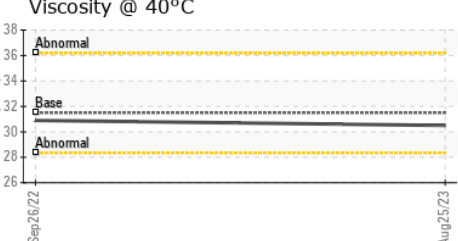
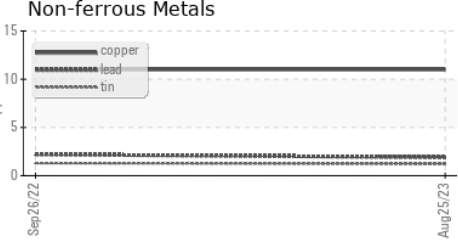
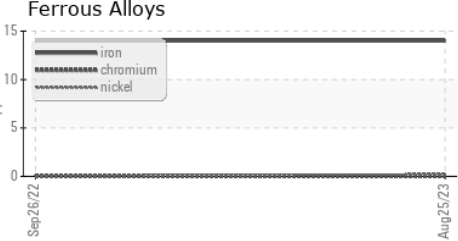
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| 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 | >0.1 | NEG | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 31.5 | 30.5 | 30.9 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0844254 **Received** : 30 Aug 2023
Lab Number : 05939083 **Diagnosed** : 06 Sep 2023
Unique Number : 10629695 **Diagnostician** : Wes Davis
Test Package : PLANT

TE CONNECTIVITY
 719 PEGG RD
 GREENSBORO, NC
 US 27409
 Contact: BILLIE WALLACE
 billie.wallace@te.com
 T:
 F:

Certificate L2367
 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)