

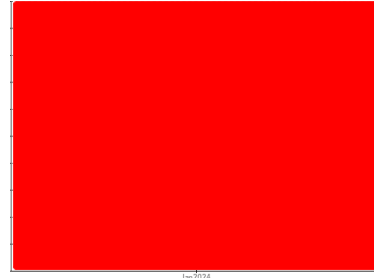


PROBLEM SUMMARY

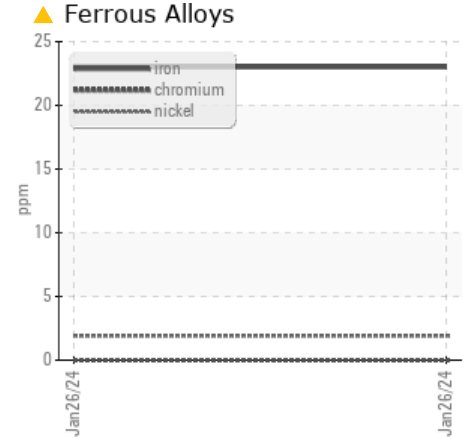
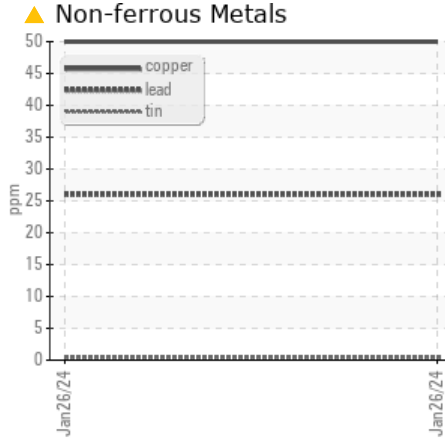
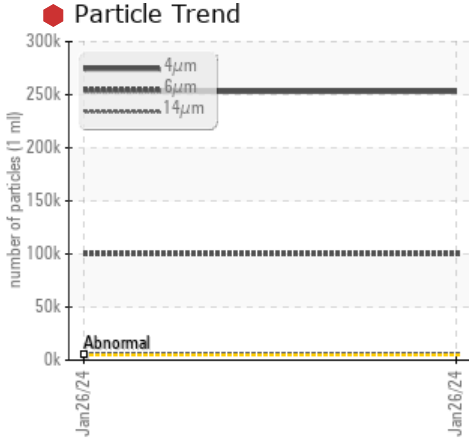
Sample Rating Trend

ISO

Area
Store 9 - Marietta
 Machine Id
FLOOR 2 PUMP
 Component
Hydraulic System
 Fluid
{not provided} (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | SEVERE | --- | --- |
|-----------------|--------|--------------|-----------|------------|-----|-----|
| Iron | ppm | ASTM D5185m | >20 | ▲ 23 | --- | --- |
| Lead | ppm | ASTM D5185m | >10 | ▲ 26 | --- | --- |
| Particles >4µm | | ASTM D7647 | >5000 | ● 252958 | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | ● 100173 | --- | --- |
| Particles >14µm | | ASTM D7647 | >160 | ● 5139 | --- | --- |
| Particles >21µm | | ASTM D7647 | >40 | ● 829 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | ● 25/24/20 | --- | --- |
| White Metal | scalar | *Visual | NONE | ▲ LIGHT | --- | --- |

Customer Id: SUTSUT
 Sample No.: LEC0047341
 Lab Number: 06075624
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|----------------------|--------|------|---------|---|
| Inspect Wear Source | --- | --- | ? | We advise that you inspect for the source(s) of wear. |
| Change Filter | --- | --- | ? | We recommend you service the filters on this component. |
| Information Required | --- | --- | ? | Please specify the brand, type, and viscosity of the oil on your next sample. |

HISTORICAL DIAGNOSIS



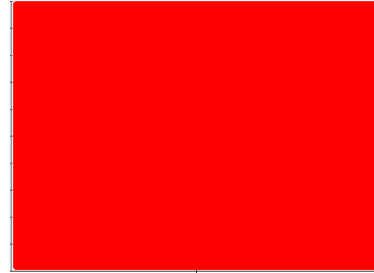
OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area
Store 9 - Marietta
Machine Id
FLOOR 2 PUMP

Component
Hydraulic System
Fluid
{not provided} (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Iron and lead ppm levels are abnormal. Light concentration of visible metal present.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | LEC0047341 | --- | --- |
| Sample Date | Client Info | | 26 Jan 2024 | --- | --- |
| Machine Age | hrs | Client Info | 0 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | SEVERE | --- | --- |

CONTAMINATION

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

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|------------|-----------------|--------------|----------|----------|
| PQ | ASTM D8184 | | 20 | --- | --- |
| Iron | ppm | ASTM D5185m >20 | ▲ 23 | --- | --- |
| Chromium | ppm | ASTM D5185m >10 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m >10 | 2 | --- | --- |
| Titanium | ppm | ASTM D5185m | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >10 | <1 | --- | --- |
| Lead | ppm | ASTM D5185m >10 | ▲ 26 | --- | --- |
| Copper | ppm | ASTM D5185m >75 | 50 | --- | --- |
| Tin | ppm | ASTM D5185m >10 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | <1 | --- | --- |
| Cadmium | ppm | ASTM D5185m | <1 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 3 | --- | --- |
| Barium | ppm | ASTM D5185m | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 2 | --- | --- |
| Manganese | ppm | ASTM D5185m | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 7 | --- | --- |
| Calcium | ppm | ASTM D5185m | 59 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 51 | --- | --- |
| Zinc | ppm | ASTM D5185m | 31 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 1047 | --- | --- |

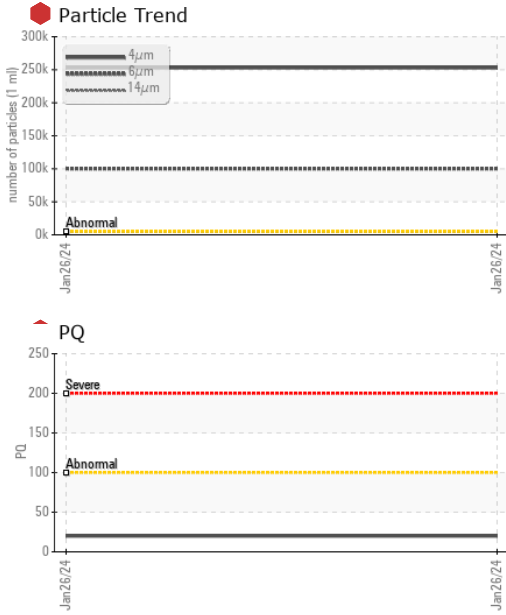
CONTAMINANTS

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

FLUID CLEANLINESS

| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-------------------|----------|----------|
| Particles >4µm | ASTM D7647 | >5000 | ● 252958 | --- | --- |
| Particles >6µm | ASTM D7647 | >1300 | ● 100173 | --- | --- |
| Particles >14µm | ASTM D7647 | >160 | ● 5139 | --- | --- |
| Particles >21µm | ASTM D7647 | >40 | ● 829 | --- | --- |
| Particles >38µm | ASTM D7647 | >10 | 9 | --- | --- |
| Particles >71µm | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >19/17/14 | ● 25/24/20 | --- | --- |

OIL ANALYSIS REPORT



| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.17 | --- | --- |

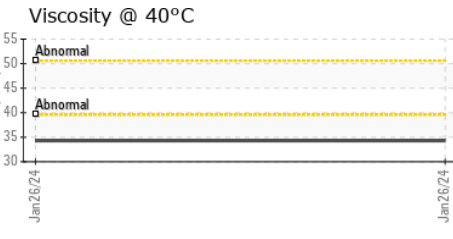
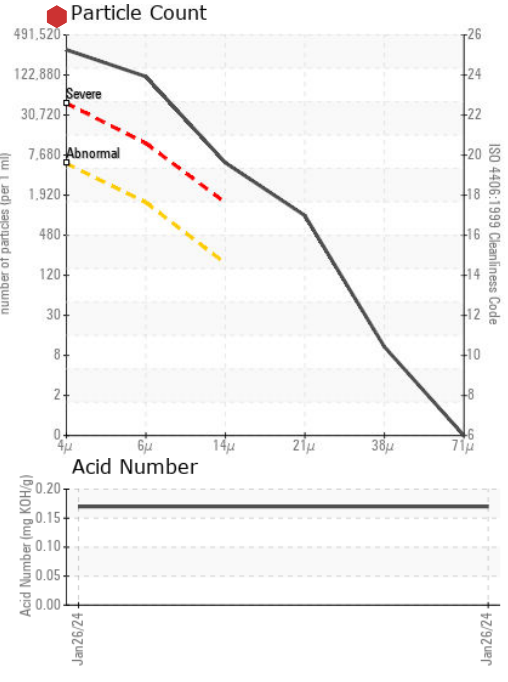
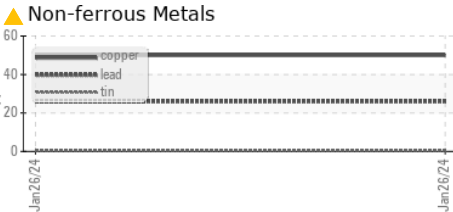
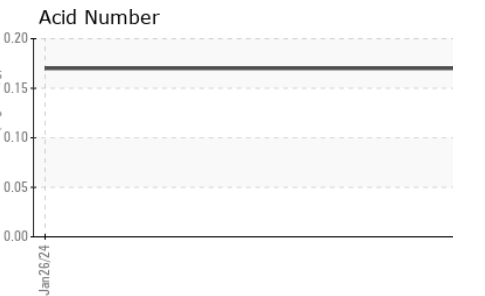
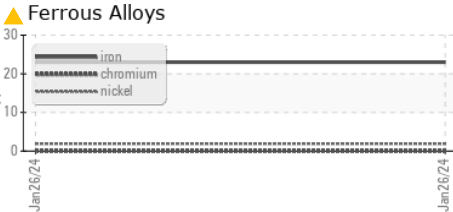
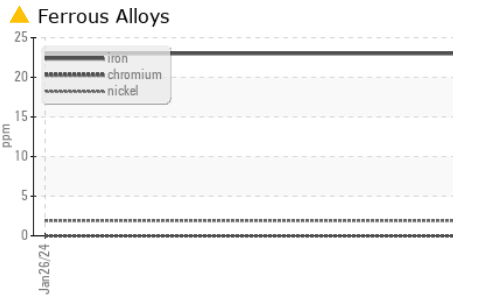
| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|---------|------------|----------------|----------|----------|
| White Metal | scalar | *Visual | NONE | ▲ LIGHT | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Precipitate | 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 | | 34.3 | --- | --- |

| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
|---------------|--|--------|------------|---------|----------|----------|
| Color | | | | | no image | no image |
| Bottom | | | | | no image | no image |



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047341 **Received** : 31 Jan 2024
Lab Number : 06075624 **Diagnosed** : 01 Feb 2024
Unique Number : 10857715 **Diagnostician** : Angela Borella
Test Package : CONST (Additional Tests: PQ)

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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)