



PROBLEM SUMMARY

Sample Rating Trend



ISO



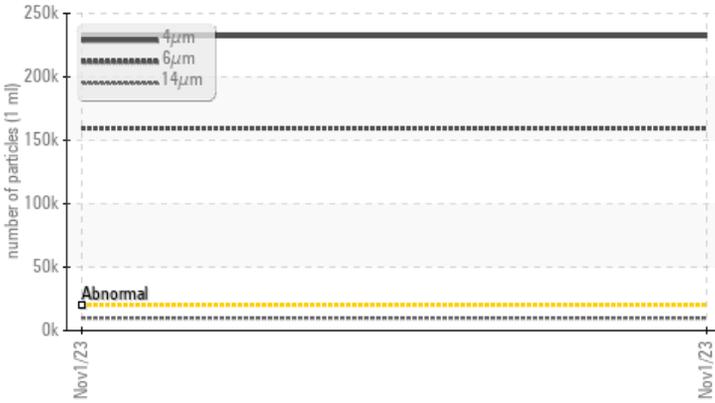
Machine Id
GRINDER 3 (SOUTH PLANT)

Component
Gearbox

Fluid
JAX MAGNA-PLATE 220 FG (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | ABNORMAL | --- | --- |
|-----------------|--------------|-----------|-------------------|-----|-----|
| Particles >4µm | ASTM D7647 | >20000 | ▲ 232155 | --- | --- |
| Particles >6µm | ASTM D7647 | >5000 | ▲ 159490 | --- | --- |
| Particles >14µm | ASTM D7647 | >640 | ▲ 9809 | --- | --- |
| Particles >21µm | ASTM D7647 | >160 | ▲ 746 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >21/19/16 | ▲ 25/24/20 | --- | --- |

Customer Id: TYSSAI
Sample No.: USP0003035
Lab Number: 05996723
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@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 |
|---------------|--------|------|---------|---|
| Change Filter | --- | --- | ? | We recommend you service the filters on this component if applicable. |

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
GRINDER 3 (SOUTH PLANT)

Component

Gearbox

Fluid

JAX MAGNA-PLATE 220 FG (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of particulates present 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 | USP0003035 | --- | --- |
| Sample Date | Client Info | 01 Nov 2023 | --- | --- |
| 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 | >200 | 16 | --- | --- |
| Chromium ppm ASTM D5185m | >15 | <1 | --- | --- |
| Nickel ppm ASTM D5185m | >15 | 0 | --- | --- |
| Titanium ppm ASTM D5185m | | 0 | --- | --- |
| Silver ppm ASTM D5185m | | 0 | --- | --- |
| Aluminum ppm ASTM D5185m | >25 | 4 | --- | --- |
| Lead ppm ASTM D5185m | >100 | 0 | --- | --- |
| Copper ppm ASTM D5185m | >200 | <1 | --- | --- |
| Tin ppm ASTM D5185m | >25 | 0 | --- | --- |
| Vanadium ppm ASTM D5185m | | 0 | --- | --- |
| Cadmium ppm ASTM D5185m | | 0 | --- | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|----------------------------|------------|------------|----------|----------|
| Boron ppm ASTM D5185m | | 0 | --- | --- |
| Barium ppm ASTM D5185m | | 0 | --- | --- |
| Molybdenum ppm ASTM D5185m | | 0 | --- | --- |
| Manganese ppm ASTM D5185m | | 0 | --- | --- |
| Magnesium ppm ASTM D5185m | | 1 | --- | --- |
| Calcium ppm ASTM D5185m | | 30 | --- | --- |
| Phosphorus ppm ASTM D5185m | | 568 | --- | --- |
| Zinc ppm ASTM D5185m | | 91 | --- | --- |
| Sulfur ppm ASTM D5185m | | 619 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|---------------------------|------------|---------------|----------|----------|
| Silicon ppm ASTM D5185m | >50 | 12 | --- | --- |
| Sodium ppm ASTM D5185m | | 0 | --- | --- |
| Potassium ppm ASTM D5185m | >20 | 2 | --- | --- |
| Water % ASTM D6304 | >0.2 | 0.16 | --- | --- |
| ppm Water ppm ASTM D6304 | >2000 | 1600.0 | --- | --- |

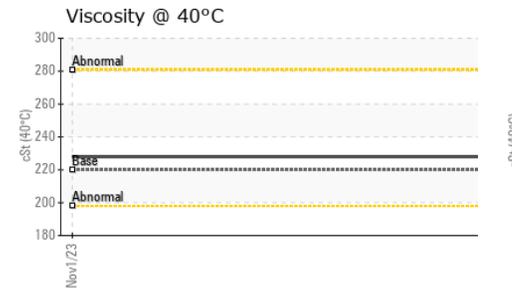
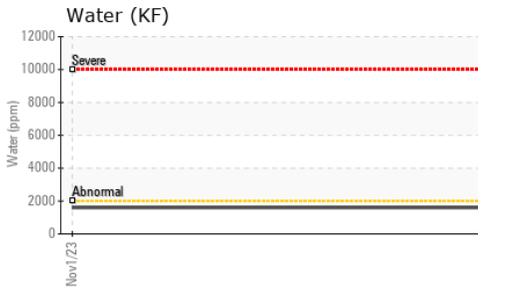
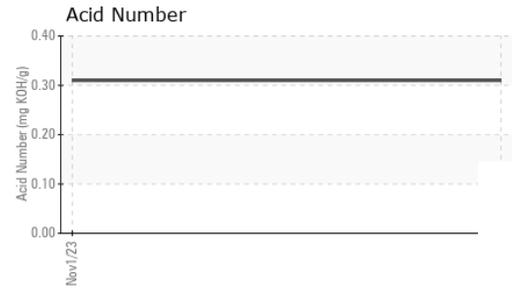
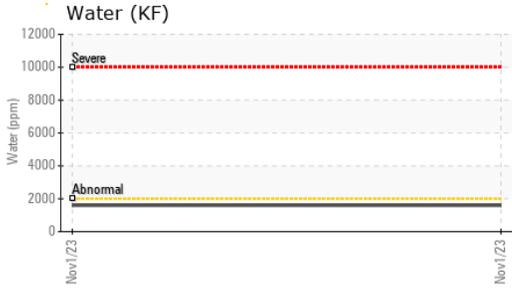
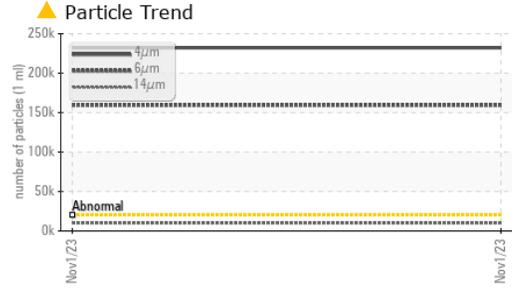
FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 |
|------------------------------|------------|-------------------|----------|----------|
| Particles >4µm ASTM D7647 | >20000 | ▲ 232155 | --- | --- |
| Particles >6µm ASTM D7647 | >5000 | ▲ 159490 | --- | --- |
| Particles >14µm ASTM D7647 | >640 | ▲ 9809 | --- | --- |
| Particles >21µm ASTM D7647 | >160 | ▲ 746 | --- | --- |
| Particles >38µm ASTM D7647 | >40 | 7 | --- | --- |
| Particles >71µm ASTM D7647 | >10 | 0 | --- | --- |
| Oil Cleanliness ISO 4406 (c) | >21/19/16 | ▲ 25/24/20 | --- | --- |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|--------------------------------------|------------|-------------|----------|----------|
| Acid Number (AN) mg KOH/g ASTM D8045 | | 0.31 | --- | --- |

OIL ANALYSIS REPORT



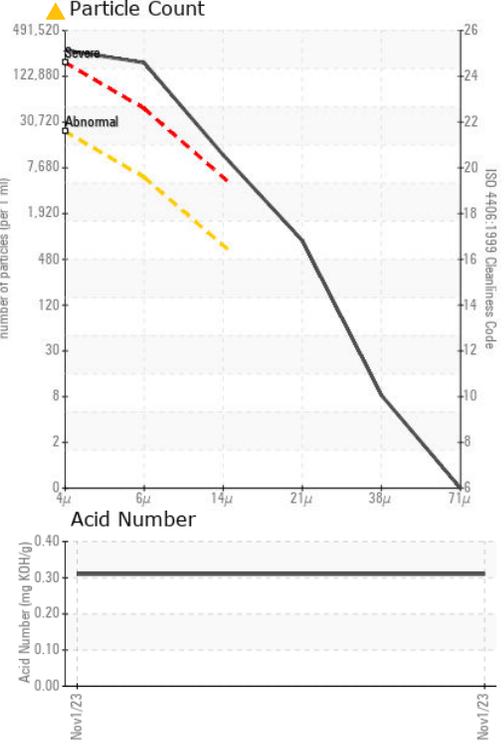
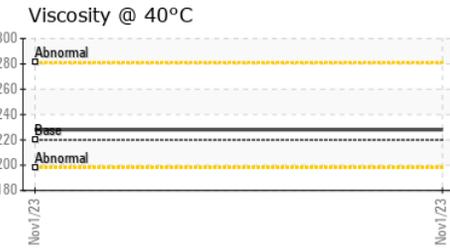
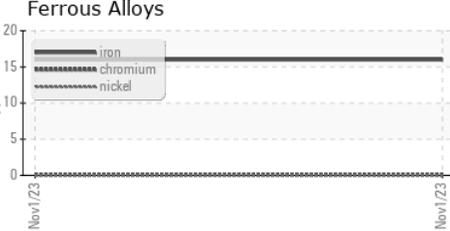
| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | HAZY | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.2 | 0.2% | --- | --- |
| Free Water | scalar | *Visual | | NEG | --- | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-----|
| Visc @ 40°C | cSt | ASTM D445 | 220 | 228 | --- | --- |

| 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. : USP0003035 **Received** : 02 Nov 2023
Lab Number : 05996723 **Diagnosed** : 06 Nov 2023
Unique Number : 10725083 **Diagnostician** : Doug Bogart
Test Package : IND 2

TYSON HILLSHIRE - SAINT JOSEPH
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 SAINT JOSEPH, MO
 US 64507
 Contact:

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)

T:
F: