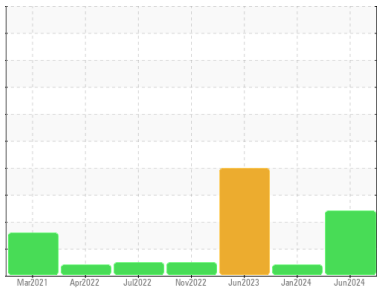
# OIL ANALYSIS REPORT

Sample Rating Trend




**WATER**

Machine Id
## AC-1 (S/N V1689U12320)
Component
**Air Compressor**
Fluid
**USPI MAX FG AIR 46 (--- GAL)**

## DIAGNOSIS

**Recommendation**
We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

**Wear**
All component wear rates are normal.

**Contamination**
There is a moderate amount of visible silt present in the sample. Free water present.

**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 | | **USPM37587** | USPM30565 | USPM28955 |
| Sample Date | | Client Info | | **05 Jun 2024** | 05 Jan 2024 | 25 Jun 2023 |
| Machine Age | hrs | Client Info | | **58162** | 55179 | 51404 |
| Oil Age | hrs | Client Info | | **0** | 0 | 0 |
| Oil Changed | | Client Info | | **N/A** | N/A | N/A |
| Sample Status | | | | **ABNORMAL** | ABNORMAL | ABNORMAL |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >50 | **0** | 0 | 0 |
| Chromium | ppm | ASTM D5185m | >4 | **0** | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >4 | **0** | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Silver | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | **1** | 2 | 2 |
| Lead | ppm | ASTM D5185m | >20 | **0** | 0 | 0 |
| Copper | ppm | ASTM D5185m | >40 | **0** | <1 | <1 |
| Tin | ppm | ASTM D5185m | >5 | **<1** | 0 | 0 |
| 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 | 0 | **0** | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0 | **0** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | **0** | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | **<1** | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 0 | **0** | 0 | 0 |
| Calcium | ppm | ASTM D5185m | 0 | **3** | 2 | 2 |
| Phosphorus | ppm | ASTM D5185m | 0 | **<1** | 1 | 2 |
| Zinc | ppm | ASTM D5185m | 0 | **49** | 56 | 36 |
| Sulfur | ppm | ASTM D5185m | 0 | **<1** | 0 | 0 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >25 | **<1** | 0 | 0 |
| Sodium | ppm | ASTM D5185m | | **1** | <1 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | **2** | <1 | <1 |
| Water | % | ASTM D6304 | >0.6 | **0.099** | 0.021 | 0.113 |
| ppm Water | ppm | ASTM D6304 | >6000 | **990** | 218 | 1130 |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | >10000 | **---** | --- | 12222 |
| Particles >6µm | | ASTM D7647 | >2500 | **---** | --- | 4035 |
| Particles >14µm | | ASTM D7647 | >640 | **---** | --- | 863 |
| Particles >21µm | | ASTM D7647 | >160 | **---** | --- | 465 |
| Particles >38µm | | ASTM D7647 | >40 | **---** | --- | 60 |
| Particles >71µm | | ASTM D7647 | >10 | **---** | --- | 3 |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/16 | **---** | --- | 21/19/17 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.16 | **0.51** | 0.46 | 0.49 |

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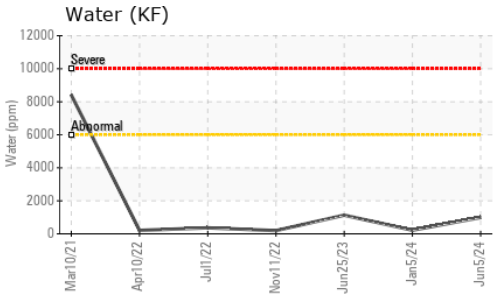
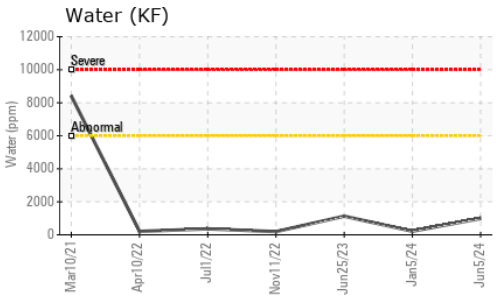
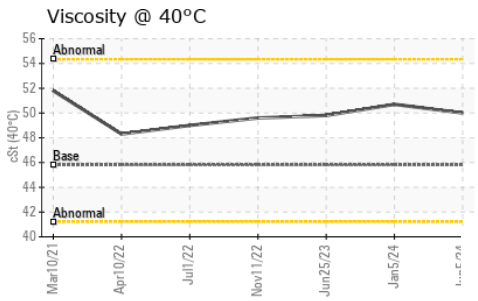


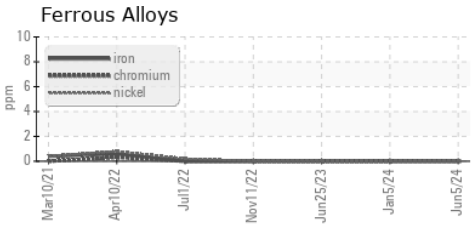



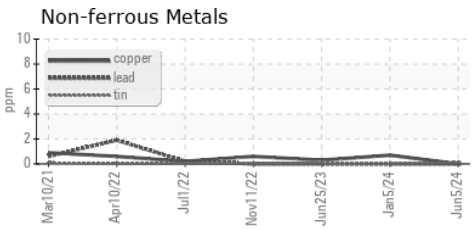

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silt | scalar | *Visual | NONE | ▲ **MODER** | NONE | NONE |
| Debris | scalar | *Visual | NONE | **NONE** | ▲ MODER | LIGHT |
| 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 | >0.6 | **0.2%** | NEG | 0.2% |
| Free Water | scalar | *Visual | | ▲ **5.0** | NEG | ▲ 10.0 |

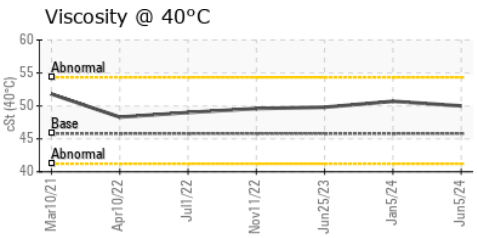
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 45.8 | **50.0** | 50.7 | 49.8 |

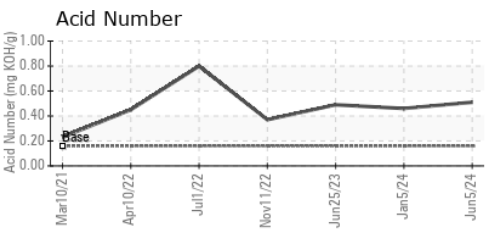
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | | |
| Bottom | | |  | | |

## GRAPHS




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : USPM37587
**Lab Number** : 06204679
**Unique Number** : 11072140
**Test Package** : IND 2

**Received** : 10 Jun 2024
**Tested** : 12 Jun 2024
**Diagnosed** : 12 Jun 2024 - Doug Bogart

*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)*

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