

# **OIL ANALYSIS REPORT**

Silicon

ppm

ASTM D5185m >12

## **Sample Rating Trend**



COMPRESSOR 1 (S/N APF230273)

Component

Air Compressor

**USPI MAX FG AIR 46 (--- GAL)** 

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

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

## **Fluid Condition**

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

| F230273)  |  | Apr2021  | Dec2021 Jun2022                       | NovŽ022 JanŽ023                              | Ju/2023                                | V   |
|---|--|--|---------------------------------------|--|--|---|
| SAMPLE INFORM   | MATION                                 | method   | limit/base                            | current                                      | history1                               | history2                                    |
| Sample Number   |  | Client Info  |                                       | USPM29013                                    | USPM21571                              | USPM25382                                   |
| Sample Date   |  | Client Info  |                                       | 14 Jul 2023                                  | 04 Apr 2023                            | 10 Jan 2023                                 |
| Machine Age   | hrs                                    | Client Info  |                                       | 34896  | 32738                                  | 30855                                       |
| Oil Age   | hrs                                    | Client Info  |                                       | 0  | 0                                      | 0   |
| Oil Changed   |  | Client Info  |                                       | N/A  | N/A                                    | N/A   |
| Sample Status   |  |  |                                       | NORMAL                                       | NORMAL                                 | NORMAL                                      |
|   |  |  |                                       |  |  |   |
| WEAR METALS   |  | method   | limit/base                            | current                                      | history1                               | history2                                    |
| WEAR METALS Iron  | ppm                                    | method ASTM D5185m   | limit/base >70                        | current<br><1                                | history1<br><1                         | history2<br>0                               |
|   | ppm<br>ppm                             |  |                                       |  |  |   |
| Iron  |  | ASTM D5185m  | >70                                   | <1   | <1                                     | 0   |
| Iron<br>Chromium  | ppm                                    | ASTM D5185m<br>ASTM D5185m   | >70<br>>15                            | <1<br>0                                      | <1                                     | 0   |
| Iron<br>Chromium<br>Nickel                                | ppm                                    | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m  | >70<br>>15                            | <1<br>0<br>0                                 | <1<br>0<br><1                          | 0<br>0<br>0                                 |
| Iron<br>Chromium<br>Nickel<br>Titanium                    | ppm<br>ppm                             | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m   | >70<br>>15<br>>6                      | <1<br>0<br>0                                 | <1<br>0<br><1<br>0                     | 0<br>0<br>0                                 |
| Iron Chromium Nickel Titanium Silver                      | ppm<br>ppm<br>ppm                      | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m  | >70<br>>15<br>>6                      | <1<br>0<br>0<br>0                            | <1<br>0<br><1<br>0                     | 0<br>0<br>0<br>0                            |
| Iron Chromium Nickel Titanium Silver Aluminum             | ppm<br>ppm<br>ppm<br>ppm               | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m                               | >70<br>>15<br>>6<br>>10<br>>20        | <1<br>0<br>0<br>0<br>0<br>0<br>0             | <1<br>0<br><1<br>0<br>0                | 0<br>0<br>0<br>0<br>0<br>0                  |
| Iron Chromium Nickel Titanium Silver Aluminum Lead        | ppm<br>ppm<br>ppm<br>ppm<br>ppm        | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m                | >70<br>>15<br>>6<br>>10<br>>20        | <1<br>0<br>0<br>0<br>0<br>0<br><1            | <1<br>0<br><1<br>0<br>0<br>0           | 0<br>0<br>0<br>0<br>0<br>0<br><1            |
| Iron Chromium Nickel Titanium Silver Aluminum Lead Copper | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m | >70<br>>15<br>>6<br>>10<br>>20<br>>80 | <1<br>0<br>0<br>0<br>0<br>0<br><1<br>0<br><1 | <1<br>0<br><1<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br><1<br>0<br><1 |

| ADDITIVES    |     | method      | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|---------|----------|----------|
| Boron        | ppm | ASTM D5185m | 0          | 0       | 0        | 0        |
| Barium       | ppm | ASTM D5185m | 0          | 1       | 2        | 1        |
| Molybdenum   | ppm | ASTM D5185m | 0          | 0       | 0        | 0        |
| Manganese    | ppm | ASTM D5185m |            | 0       | 0        | 0        |
| Magnesium    | ppm | ASTM D5185m | 0          | 0       | 0        | 0        |
| Calcium      | ppm | ASTM D5185m | 0          | 2       | <1       | 3        |
| Phosphorus   | ppm | ASTM D5185m | 0          | 7       | 11       | 7        |
| Zinc         | ppm | ASTM D5185m | 0          | 38      | 46       | 61       |
| Sulfur       | ppm | ASTM D5185m | 0          | 0       | 92       | 0        |
| CONTAMINANTS |     | method      | limit/base | current | history1 | history2 |

0

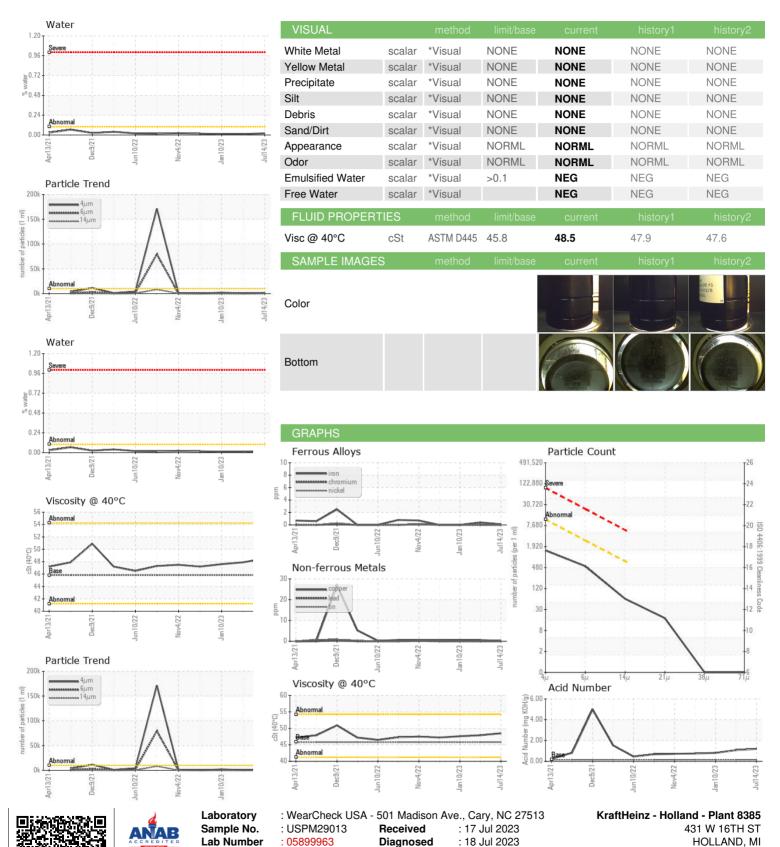
| Sodium          | ppm   | ASTM D5185m  |            | 2        | 2        | 3        |
|-----------------|-------|--------------|------------|----------|----------|----------|
| Potassium       | ppm   | ASTM D5185m  | >20        | <1       | <1       | 0        |
| Water           | %     | ASTM D6304   | >0.1       | 0.020    | 0.012    | 0.012    |
| ppm Water       | ppm   | ASTM D6304   | >1000      | 201.6    | 129.5    | 120.5    |
| FLUID CLEANLIN  | IESS  | method       | limit/base | current  | history1 | history2 |
| Particles >4µm  |       | ASTM D7647   | >10000     | 1298     | 481      | 1937     |
| Particles >6µm  |       | ASTM D7647   | >2500      | 460      | 138      | 397      |
| Particles >14µm |       | ASTM D7647   | >640       | 54       | 10       | 45       |
| Particles >21μm |       | ASTM D7647   | >160       | 15       | 2        | 18       |
| Particles >38μm |       | ASTM D7647   | >40        | 0        | 0        | 0        |
| Particles >71μm |       | ASTM D7647   | >10        | 0        | 0        | 0        |
| Oil Cleanliness |       | ISO 4406 (c) | >20/18/16  | 17/16/13 | 16/14/10 | 18/16/13 |
| FLUID DEGRADA   | NOITA | method       | limit/base | current  | history1 | history2 |

<1

<1



## **OIL ANALYSIS REPORT**



Certificate L2367

**Unique Number** 

Test Package

: 10561319

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.

: IND 2

Diagnostician

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: Doug Bogart

US 49423

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Contact: Service Manager