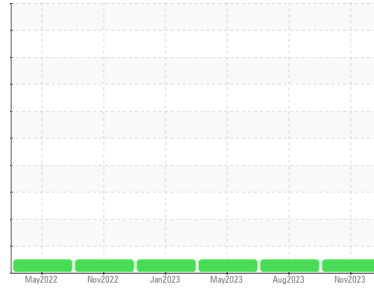




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



## Machine Id GAS COMPRESSOR 1 (S/N 19L88)

Component  
**Air Compressor**  
Fluid  
**MOBIL PEGASUS 805 (--- 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.

### SAMPLE INFORMATION

| method        | limit/base      | current            | history1    | history2    |
|---------------|-----------------|--------------------|-------------|-------------|
| Sample Number | Client Info     | <b>USP245452</b>   | USP245453   | USP245451   |
| Sample Date   | Client Info     | <b>02 Nov 2023</b> | 07 Aug 2023 | 03 May 2023 |
| Machine Age   | hrs Client Info | <b>0</b>           | 0           | 0           |
| Oil Age       | hrs Client Info | <b>0</b>           | 0           | 0           |
| Oil Changed   | Client Info     | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |                 | <b>NORMAL</b>      | NORMAL      | NORMAL      |

### WEAR METALS

| method                   | limit/base | current      | history1 | history2 |
|--------------------------|------------|--------------|----------|----------|
| Iron ppm ASTM D5185m     | >50        | <b>0</b>     | 0        | 1        |
| Chromium ppm ASTM D5185m | >4         | <b>0</b>     | 0        | 0        |
| Nickel ppm ASTM D5185m   | >4         | <b>&lt;1</b> | <1       | 0        |
| Titanium ppm ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Silver ppm ASTM D5185m   |            | <b>0</b>     | <1       | 0        |
| Aluminum ppm ASTM D5185m | >10        | <b>2</b>     | 2        | 0        |
| Lead ppm ASTM D5185m     | >20        | <b>3</b>     | 2        | 2        |
| Copper ppm ASTM D5185m   | >40        | <b>&lt;1</b> | <1       | <1       |
| Tin ppm ASTM D5185m      | >5         | <b>&lt;1</b> | <1       | 0        |
| Vanadium ppm ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Cadmium ppm ASTM D5185m  |            | <b>0</b>     | 0        | 0        |

### ADDITIVES

| method                     | limit/base | current      | history1 | history2 |
|----------------------------|------------|--------------|----------|----------|
| Boron ppm ASTM D5185m      | 80         | <b>0</b>     | 0        | 0        |
| Barium ppm ASTM D5185m     |            | <b>0</b>     | 0        | 0        |
| Molybdenum ppm ASTM D5185m |            | <b>&lt;1</b> | 2        | 2        |
| Manganese ppm ASTM D5185m  |            | <b>&lt;1</b> | 0        | 0        |
| Magnesium ppm ASTM D5185m  |            | <b>9</b>     | 4        | 7        |
| Calcium ppm ASTM D5185m    | 1020       | <b>1316</b>  | 1453     | 1334     |
| Phosphorus ppm ASTM D5185m | 220        | <b>312</b>   | 318      | 299      |
| Zinc ppm ASTM D5185m       | 230        | <b>353</b>   | 364      | 354      |
| Sulfur ppm ASTM D5185m     | 1000       | <b>2328</b>  | 2496     | 2529     |

### CONTAMINANTS

| method                    | limit/base | current      | history1 | history2 |
|---------------------------|------------|--------------|----------|----------|
| Silicon ppm ASTM D5185m   | >25        | <b>2</b>     | 1        | 2        |
| Sodium ppm ASTM D5185m    |            | <b>0</b>     | 0        | 0        |
| Potassium ppm ASTM D5185m | >20        | <b>&lt;1</b> | <1       | <1       |
| Water % ASTM D6304        | >0.6       | <b>0.011</b> | 0.032    | 0.018    |
| ppm Water ppm ASTM D6304  | >6000      | <b>119.7</b> | 322.7    | 180.8    |

### FLUID CLEANLINESS

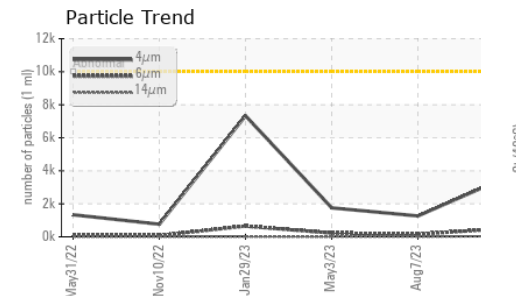
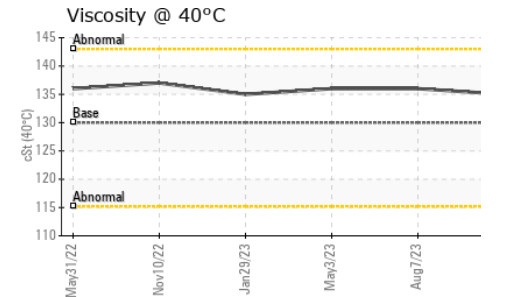
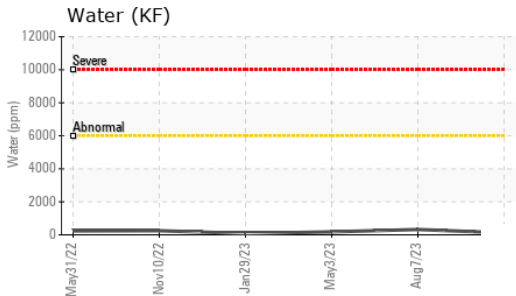
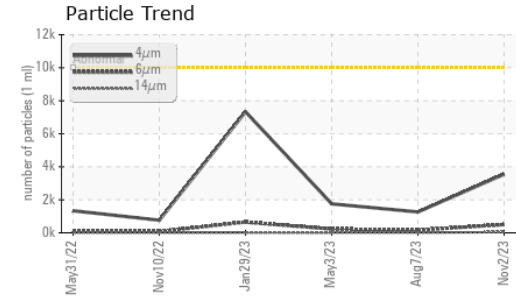
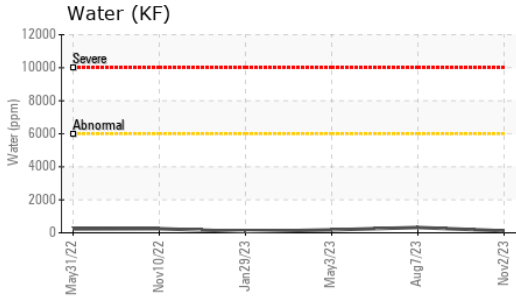
| method                       | limit/base | current         | history1 | history2 |
|------------------------------|------------|-----------------|----------|----------|
| Particles >4µm ASTM D7647    | >10000     | <b>3550</b>     | 1263     | 1755     |
| Particles >6µm ASTM D7647    | >2500      | <b>497</b>      | 162      | 230      |
| Particles >14µm ASTM D7647   | >320       | <b>42</b>       | 11       | 8        |
| Particles >21µm ASTM D7647   | >80        | <b>13</b>       | 3        | 2        |
| Particles >38µm ASTM D7647   | >20        | <b>0</b>        | 1        | 0        |
| Particles >71µm ASTM D7647   | >4         | <b>0</b>        | 0        | 0        |
| Oil Cleanliness ISO 4406 (c) | >20/18/15  | <b>19/16/13</b> | 17/15/11 | 18/15/10 |

### FLUID DEGRADATION

| method                               | limit/base | current      | history1 | history2 |
|--------------------------------------|------------|--------------|----------|----------|
| Acid Number (AN) mg KOH/g ASTM D8045 | 1.0        | <b>0.317</b> | 0.46     | 0.242    |



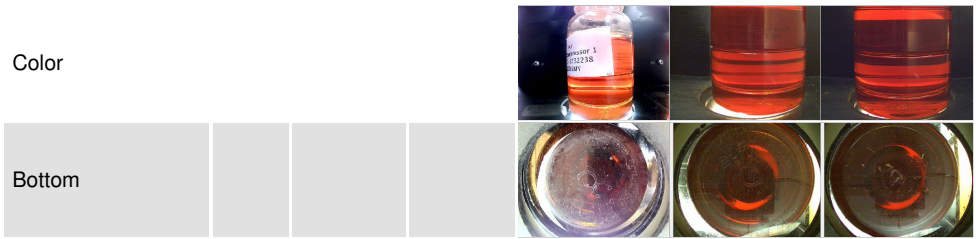
# OIL ANALYSIS REPORT



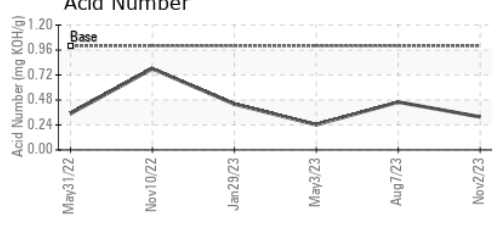
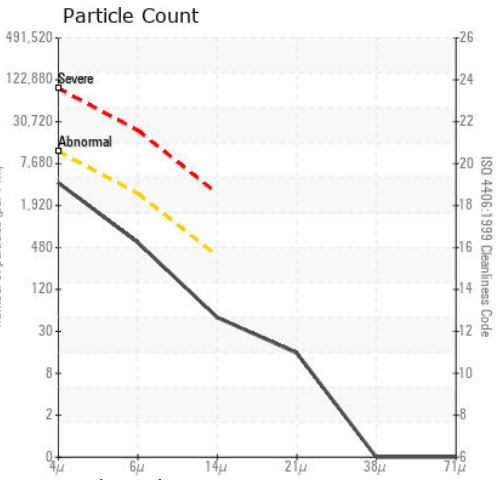
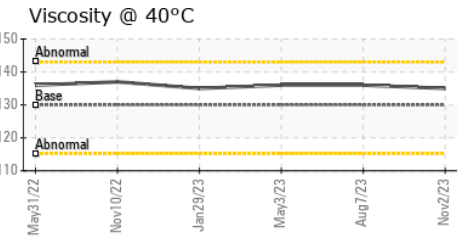
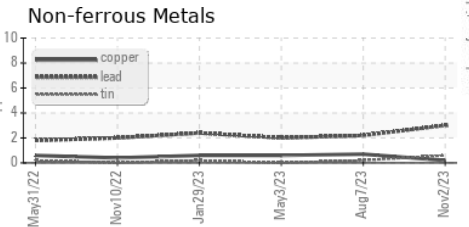
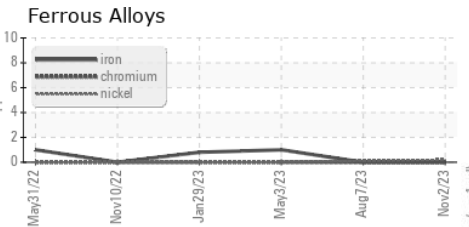
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual    | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual    | NONE    | LIGHT    | LIGHT    |
| Sand/Dirt        | scalar | *Visual    | NONE    | NONE     | NONE     |
| Appearance       | scalar | *Visual    | NORML   | NORML    | NORML    |
| Odor             | scalar | *Visual    | NORML   | NORML    | NORML    |
| Emulsified Water | scalar | *Visual    | >0.6    | NEG      | NEG      |
| Free Water       | scalar | *Visual    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 130.0   | 135      | 136      |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP245452 **Received** : 03 Nov 2023  
**Lab Number** : 05998027 **Diagnosed** : 06 Nov 2023  
**Unique Number** : 10726387 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**NRG ENERGY CENTER - SMYRNA LLC - DCOSMY**  
 217 ARTISAN DR  
 SMYRNA, DE  
 US 19977  
**Contact: JERRY WIEGAND**

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: (302)659-0200  
 F: (302)659-0600