

PROBLEM SUMMARY

Sample Rating Trend

VISCOSITY

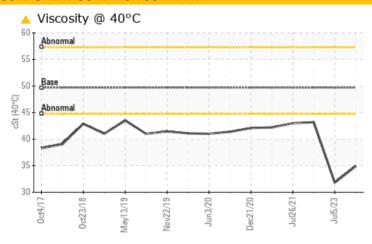
VISCOSITY

Machine Id **003-137143**

Component Air Compressor

USPI AIR 46 (--- LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on 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.

| PROBLEMATIC TEST RESULTS | | | | | | | | | |
|--------------------------|--------|-----------|------|---------------|---------------|--------|--|--|--|
| Sample Status | | | | ABNORMAL | ATTENTION | NORMAL | | | |
| Debris | scalar | *Visual | NONE | ▲ MODER | LIGHT | NONE | | | |
| Visc @ 40°C | cSt | ASTM D445 | 49.7 | 4 34.9 | △ 31.8 | 43.2 | | | |

Customer Id: PREORA Sample No.: USPM5905517 Lab Number: 05905517 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. |
| Alert | | | ? | We were unable to perform a particle count due to a high concentration of particles present in this sample. |

HISTORICAL DIAGNOSIS

05 Jul 2023 Diag: Doug Bogart

VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.



02 Nov 2021 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

26 Jul 2021 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

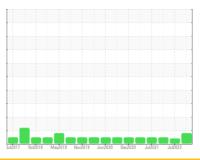
Sample Rating Trend



Machine Id 003-137143 Component

Air Compressor

USPI AIR 46 (--- LTR)





DIAGNOSIS

Recommendation

We recommend you service the filters on 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

Moderate concentration of visible dirt/debris present in the oil.

▲ Fluid Condition

The oil viscosity remains lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

| SAMPLE INFORM | ΙΔΤΙΩΝ | method | limit/base | current | history1 | history2 |
|---------------------------------|---------|-------------|-----------------|-------------|---------------|---------------|
| | WALLOW. | | IIIIIIIIIIIIII | | | |
| Sample Number | | Client Info | | USPM5905517 | USPM28102 | USPM20570 |
| Sample Date | | Client Info | | 23 Jul 2023 | 05 Jul 2023 | 02 Nov 2021 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ABNORMAL | ATTENTION | NORMAL |
| 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 | | <1 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >40 | 0 | <1 | 0 |
| Tin | ppm | ASTM D5185m | >5 | 0 | <1 | 0 |
| Antimony | ppm | ASTM D5185m | | | | 5 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | ρρ | method | limit/base | current | history1 | history2 |
| Boron | | ASTM D5185m | 0 | 0 | 0 | 0 |
| Barium | ppm | | 0 | ۰ <1 | 7 | 0 |
| | ppm | | | | | |
| 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 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | 1 | 8 | 1 | 7 |
| Zinc | ppm | | 0 | 0 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | 0 | 0 | 18 | 0 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 0 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 1 | 0 |
| Water | % | ASTM D6304 | >0.2 | 0.057 | 0.047 | 0.035 |
| ppm Water | ppm | ASTM D6304 | >2000 | 577.5 | 479.4 | 359.6 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4μm | | ASTM D7647 | >10000 | | 7098 | 2059 |
| Particles >6µm | | ASTM D7647 | >2500 | | 1892 | 423 |
| Particles >14µm | | ASTM D7647 | >320 | | 86 | 24 |
| Particles >21µm | | ASTM D7647 | >80 | | 21 | 6 |
| Particles >38µm | | ASTM D7647 | >20 | | 0 | 0 |
| | | | | | | |
| Particles >71um | | ASTM D7647 | >4 | | 0 | 0 |
| Particles >71µm Oil Cleanliness | | | >4 >20/18/15 | | 0 20/18/14 | 0 18/16/12 |

0.08

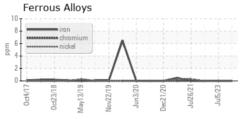
0.263

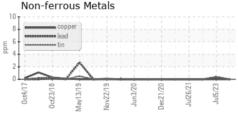


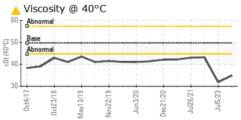
OIL ANALYSIS REPORT

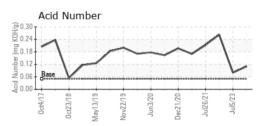














0.00



Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: USPM5905517 : 05905517

: 10566873 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 24 Jul 2023 Received Diagnosed : 25 Jul 2023

Diagnostician : Doug Bogart PREMIUM PET HEALTH - SMITHFIELD (SMIORA)

101 14TH ST SE ORANGE CITY, IA US 51041

Contact: TIM REINERT

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: (712)737-5739 F: