

PROBLEM SUMMARY

Sample Rating Trend

VIS DEBRIS

L4 C (S/N 119510206)

Component Vacuum Pump

USPI VAC 100 (--- QTS)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

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 T | MATIC TEST RESULTS | | | | | |
|---------------|--------------------|---------|------|----------|--------|--------|
| Sample Status | | | | ABNORMAL | NORMAL | NORMAL |
| Debris | scalar | *Visual | NONE | ▲ MODER | NONE | NONE |

Customer Id: KRAKIRMO Sample No.: USPM31035 Lab Number: 05979660 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

10 Jul 2023 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. Viscosity confirmed.



04 May 2023 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.

view report

05 Jan 2023 Diag: Doug Bogart

NORMAL



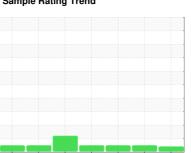
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for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





OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



L4 C (S/N 119510206) Component

Vacuum Pump

USPI VAC 100 (--- QTS)

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

| | | Oct2021 | Apr2022 Sep2022 | Jan2023 May2023 Jul2023 | Oct2023 | |
|------------------|----------|--------------|-----------------|-------------------------|-------------|-------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | USPM31035 | USPM27744 | USPM25372 |
| Sample Date | | Client Info | | 15 Oct 2023 | 10 Jul 2023 | 04 May 2023 |
| 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 | NORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | <1 | <1 | 0 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >20 | <1 | <1 | 0 |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | 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 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | 1800 | 1274 | 1380 | 1291 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | 0 | 41 | 29 | 0 |
| CONTAMINANTS | } | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 5 | 4 | 9 |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 2 | 1 |
| Water | % | ASTM D6304 | >.1 | 0.076 | 0.053 | 0.055 |
| ppm Water | ppm | ASTM D6304 | >1000 | 763.8 | 537.2 | 550.6 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4μm | | ASTM D7647 | >10000 | | 562 | 411 |
| Particles >6µm | | ASTM D7647 | >2500 | | 156 | 145 |
| Particles >14μm | | ASTM D7647 | >640 | | 13 | 15 |
| Particles >21μm | | ASTM D7647 | >160 | | 6 | 3 |
| Particles >38μm | | ASTM D7647 | >40 | | 2 | 0 |
| Particles >71μm | | ASTM D7647 | >10 | | 2 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/16 | | 16/14/11 | 16/14/11 |
| FLUID DEGRADA | NOITA | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | ma KOU/a | VCTM DOUVE | 0.05 | 0.17 | 0.15 | 0.15 |

Acid Number (AN)

mg KOH/g ASTM D8045 0.05

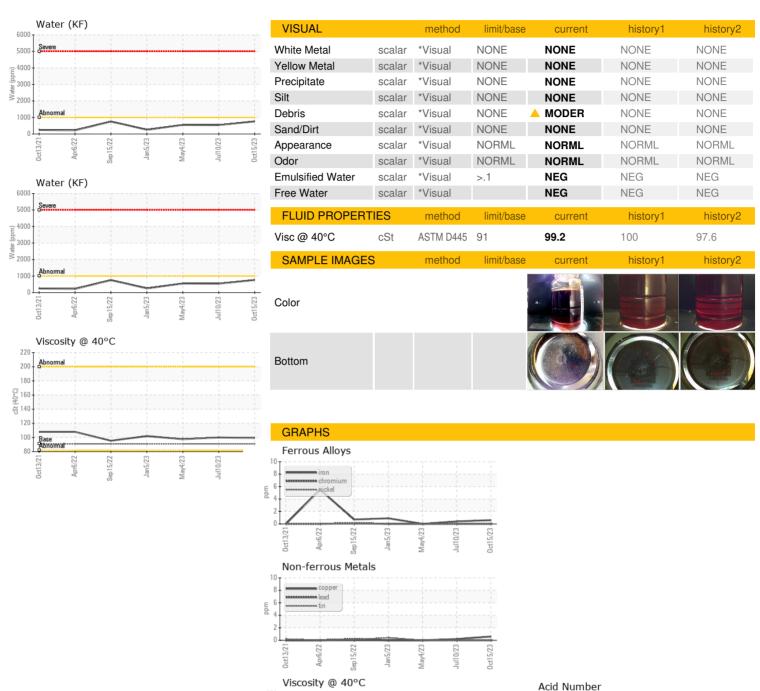
0.15

0.17

0.15



OIL ANALYSIS REPORT







Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package

: USPM31035 : 05979660 : 10696955 : IND 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

250

200

50

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Oct 2023 Diagnosed Diagnostician

: 17 Oct 2023 : Doug Bogart

(mg KOH/g)

4.00

0.00 G

KraftHeinz - Kirksville - Plant 8333 USP 2504 INDUSTRIAL RD KIRKSVILLE, MO

US 63501 Contact: LARRY WISKIRCHEN

larry.wiskirchen@kraftfoods.com T: (660)627-1031

* - 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)

Sep15/22

F: