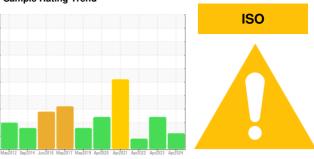


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **FALK VAC-PAN-7**

Component **Gearbox** 

**CASTROL AP GEAR LUBRICANT 85W140 (10 GAL)** 

### **DIAGNOSIS**

### Recommendation

Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

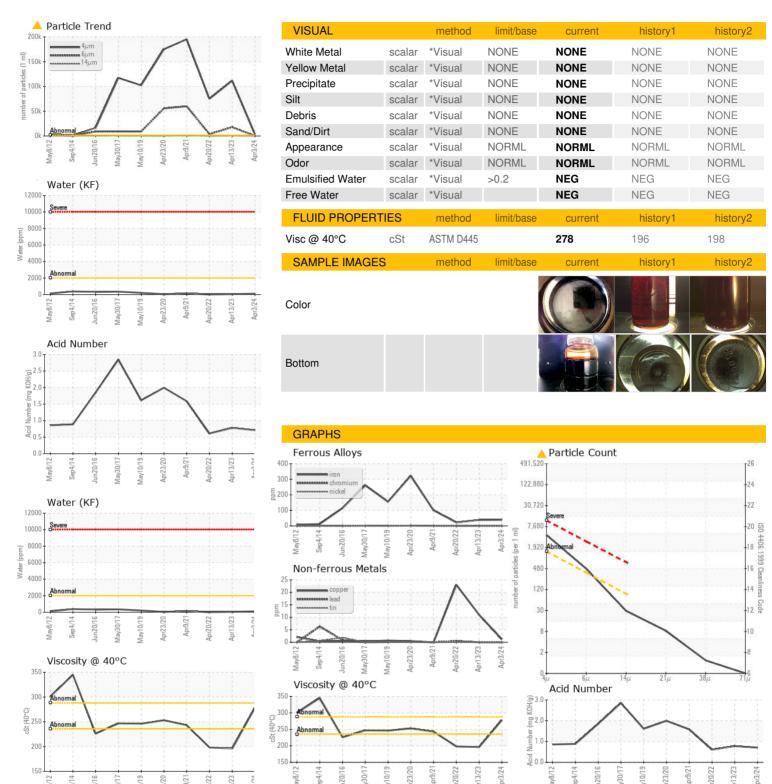
### **Fluid Condition**

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

| 10 GAL)         |        |              | ui4 Junzui6 Mayzui7 Mayz |                  |                   |                            |
|-----------------|--------|--------------|--------------------------|------------------|-------------------|----------------------------|
| SAMPLE INFORM   | MATION | method       | limit/base               | current          | history1          | history2                   |
| Sample Number   |        | Client Info  |                          | ST43203          | ST44183           | ST42837                    |
| Sample Date     |        | Client Info  |                          | 03 Apr 2024      | 13 Apr 2023       | 20 Apr 2022                |
| Machine Age     | mths   | Client Info  |                          | 0                | 0                 | 0                          |
| Oil Age         | mths   | 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                   |
| ron             | ppm    | ASTM D5185m  | >200                     | 39               | 38                | 22                         |
| Chromium        | ppm    | ASTM D5185m  | >15                      | <1               | <1                | 0                          |
| Nickel          | ppm    | ASTM D5185m  | >15                      | 0                | <1                | 0                          |
| -<br>itanium    | ppm    | ASTM D5185m  |                          | 0                | 0                 | <1                         |
| Silver          | ppm    | ASTM D5185m  |                          | 0                | 0                 | <1                         |
| Aluminum        | ppm    | ASTM D5185m  | >25                      | <1               | 1                 | <1                         |
| _ead            | ppm    | ASTM D5185m  | >100                     | 0                | 0                 | <1                         |
| Copper          | ppm    | ASTM D5185m  | >200                     | 1                | 11                | 23                         |
| Γin             | ppm    | ASTM D5185m  | >25                      | 0                | 0                 | <1                         |
| Antimony        | ppm    | ASTM D5185m  | >5                       |                  |                   |                            |
| /anadium        | ppm    | ASTM D5185m  |                          | <1               | 0                 | 0                          |
| Cadmium         | ppm    | ASTM D5185m  |                          | 0                | 0                 | 0                          |
| ADDITIVES       |        | method       | limit/base               | current          | history1          | history2                   |
| Boron           | ppm    | ASTM D5185m  |                          | 0                | 0                 | 0                          |
| Barium          | ppm    | ASTM D5185m  |                          | 0                | 0                 | 0                          |
| Molybdenum      | ppm    | ASTM D5185m  |                          | <1               | 0                 | <1                         |
| Manganese       | ppm    | ASTM D5185m  |                          | <1               | 1                 | <1                         |
| Magnesium       | ppm    | ASTM D5185m  |                          | 0                | 11                | 10                         |
| Calcium         | ppm    | ASTM D5185m  |                          | 13               | 76                | 55                         |
| Phosphorus      | ppm    | ASTM D5185m  |                          | 160              | 372               | 313                        |
| Zinc            | ppm    | ASTM D5185m  |                          | 46               | 279               | 133                        |
| Sulfur          | ppm    | ASTM D5185m  |                          | 8914             | 5045              | 1219                       |
| CONTAMINANTS    |        | method       | limit/base               | current          | history1          | history2                   |
| Silicon         | ppm    | ASTM D5185m  | >50                      | 1                | 3                 | 3                          |
| Sodium          | ppm    | ASTM D5185m  |                          | 1                | 2                 | 0                          |
| Potassium       | ppm    | ASTM D5185m  | >20                      | 0                | <1                | 2                          |
| Vater           | %      | ASTM D6304   | >0.2                     | 0.009            | 0.005             | 0.001                      |
| opm Water       | ppm    | ASTM D6304   | >2000                    | 98               | 57.2              | 5.9                        |
| FLUID CLEANLIN  | IESS   | method       | limit/base               | current          | history1          | history2                   |
| Particles >4µm  |        | ASTM D7647   | >1300                    | <u>▲</u> 3851    | <u>▲</u> 111537   | <b>△</b> 74976             |
| Particles >6µm  |        | ASTM D7647   |                          | <u>416</u>       | <u>▲</u> 17790    | <b>△</b> 3695              |
| Particles >14μm |        | ASTM D7647   | >80                      | 26               | <u>484</u>        | 25                         |
| Particles >21µm |        | ASTM D7647   | >20                      | 7                | <u> </u>          | 3                          |
| Particles >38µm |        | ASTM D7647   | >4                       | 1                | <u>^</u> 6        | 0                          |
| Particles >71µm |        | ASTM D7647   | >3                       | 0                | 0                 | 0                          |
| Oil Cleanliness |        | ISO 4406 (c) | >17/15/13                | <b>1</b> 9/16/12 | <u>4</u> 24/21/16 | <u>\$\text{23}\19\12\$</u> |
| FLUID DEGRADA   | TION   | method       | limit/base               | current          | history1          | history2                   |



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Lab Number Unique Number : 10967869

: ST43203 : 06143061

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Apr 2024 **Tested** 

: 10 Apr 2024 Diagnosed Test Package : IND 2 ( Additional Tests: KF, PrtCount )

: 11 Apr 2024 - Jonathan Hester

326 SE 1ST ST BELLE GLADE, FL US 33430

Contact: ROBERT RETALEATO r.retaleato@hydraulic-supply.com;rsr@hydraulic-supply.com

**HYDRAULIC SUPPLY COMPANY** 

T: (561)996-4431 F: (561)996-8531

To discuss this sample report, contact Customer Service at 1-800-237-1369  $^st$  - 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)