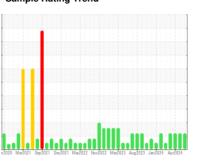


OIL ANALYSIS REPORT

Sample Rating Trend





NAT CUTS [98949972] LINE 1 CUBER

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

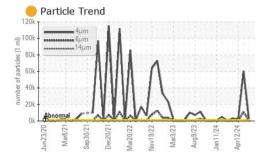
Fluid Condition

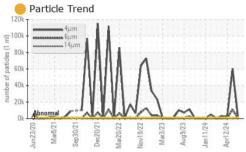
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

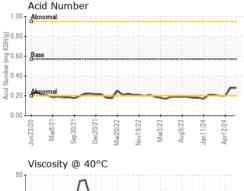
| | | 112020 Mal202 | oepzozi peczozi marzoz | 2 Nov2022 Mar2023 Aug2023 Jan20 | er Apizozr | |
|-----------------|--------|---------------|------------------------|---------------------------------|------------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0124896 | PCA0124895 | PCA0117991 |
| Sample Date | | Client Info | | 24 May 2024 | 20 May 2024 | 12 Apr 2024 |
| Machine Age | days | Client Info | | 0 | 0 | 0 |
| Oil Age | days | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ATTENTION | ABNORMAL | ATTENTION |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.05 | NEG | NEG | NEG |
| WEAR METAL | .S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 0 | <1 | 9 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | 2 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 4 | 2 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 1 |
| Copper | ppm | ASTM D5185m | >20 | <1 | <1 | 17 |
| Tin | ppm | ASTM D5185m | >20 | <1 | <1 | 1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 5 | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 25 | <1 | <1 | <1 |
| Calcium | ppm | ASTM D5185m | 200 | 1 | 1 | 6 |
| Phosphorus | ppm | ASTM D5185m | 300 | 243 | △ 35 | 343 |
| Zinc | ppm | ASTM D5185m | 370 | 4 | <u>^</u> 2 | 43 |
| Sulfur | ppm | ASTM D5185m | 2500 | 726 | ▲ 58 | 863 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 2 | 1 | 5 |
| Sodium | ppm | ASTM D5185m | | 11 | 8 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 2 | 1 |
| FLUID CLEAN | LINESS | S method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >1300 | <u>2346</u> | ▲ 60479 | 2455 |
| Particles >6µm | | ASTM D7647 | >320 | <u> </u> | ▲ 10890 | 415 |
| Particles >14μm | | ASTM D7647 | >80 | 19 | 67 | 43 |
| Particles >21μm | | ASTM D7647 | >20 | 1 | 6 | 6 |
| Particles >38μm | | ASTM D7647 | >4 | 0 | 0 | 0 |
| Particles >71μm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >17/15/13 | 18/16/11 | 2 3/21/13 | 18/16/13 |
| FLUID DEGRA | OITAC | method | limit/base | current | history1 | history2 |

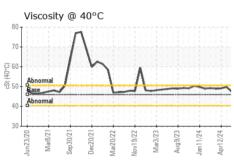


OIL ANALYSIS REPORT









| VISUAL | | | | | | |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.05 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPE | RTIES | method | limit/base | current | history1 | history2 |

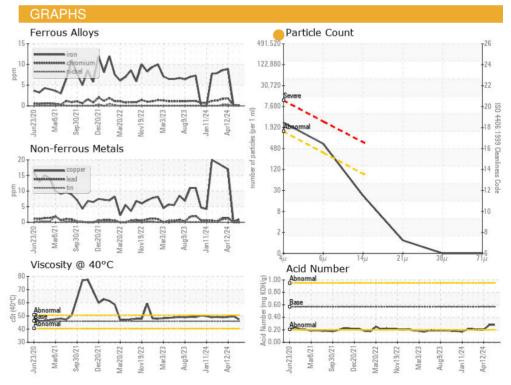
| Visc @ 40°C | cSt | ASTM D445 | 46 | 47.3 | 49.8 | 49.1 |
|-------------|-----|-----------|----|------|------|------|

| SAMPLE IMAGES | | | |
|---------------|--|--|--|
|---------------|--|--|--|

Color

Bottom









Certificate 12367

Laboratory

Sample No. Lab Number : 06199094 Unique Number : 11061217

: PCA0124896

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Jun 2024

Tested : 06 Jun 2024 Diagnosed : 06 Jun 2024 - Jonathan Hester

KraftHeinz - Springfield - Plant 8311 PCA

2035 E BENNETT SPRINGFIELD, MO US 65804

Contact: Service Manager

Test Package : IND 2 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:

F: