

OIL ANALYSIS REPORT

ISO



DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

| | | | | Nov2023 | | |
|------------------|---------------|--------------|------------|--------------|----------|----------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PTK0000392 | | |
| Sample Date | | Client Info | | 09 Nov 2023 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | ABNORMAL | | |
| CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.1 | NEG | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | <1 | | |
| Chromium | ppm | ASTM D5185m | >10 | 0 | | |
| Nickel | ppm | ASTM D5185m | >10 | 0 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | | 0 | | |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | | |
| Lead | ppm | ASTM D5185m | >10 | 0 | | |
| Copper | ppm | ASTM D5185m | | <1 | | |
| Tin | ppm | ASTM D5185m | | 0 | | |
| Vanadium | ppm | ASTM D5185m | >10 | 0 | | |
| Cadmium | | ASTM D5185m | | 0 | | |
| | ppm | | | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 5 | 0 | | |
| Barium | ppm | ASTM D5185m | 5 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 5 | 0 | | |
| Manganese | ppm | ASTM D5185m | | 0 | | |
| Magnesium | ppm | ASTM D5185m | 25 | 0 | | |
| Calcium | ppm | ASTM D5185m | 200 | 54 | | |
| Phosphorus | ppm | ASTM D5185m | 300 | 315 | | |
| Zinc | ppm | ASTM D5185m | 370 | 447 | | |
| Sulfur | ppm | ASTM D5185m | 2500 | 1304 | | |
| CONTAMINANTS | 5 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >20 | 0 | | |
| Sodium | ppm | ASTM D5185m | | <1 | | |
| Potassium | ppm | ASTM D5185m | >20 | 0 | | |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | | 19637 | | |
| Particles >6µm | | ASTM D7647 | >2500 | <u> </u> | | |
| Particles >14µm | | ASTM D7647 | >320 | A 886 | | |
| Particles >21µm | | ASTM D7647 | >80 | <u> </u> | | |
| Particles >38μm | | ASTM D7647 | >20 | 4 | | |
| Particles >71µm | | ASTM D7647 | >4 | 0 | | |
| Oil Cleanliness | | ISO 4406 (c) | >18/15 | ▲ 20/17 | | |
| FLUID DEGRADA | | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.57 | 0.26 | | |
| 10:56) Rev: 1 | ÷ 0 | | | | | |

Contact/Location: TONY HILDY - GRAELK



Acid Number

1.00

0.8 Ê0.60

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method

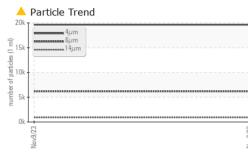
limit/base

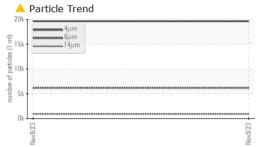
current

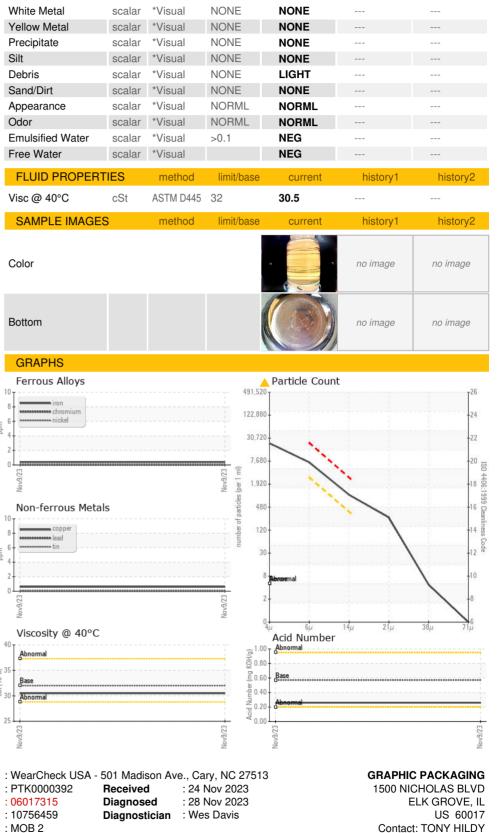
history1

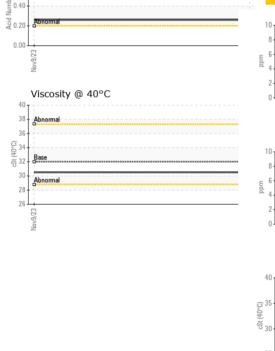
history2

VISUAL









Test Package : MOB 2 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. anthonyhildy@graphicpkg.com * - 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)

Laboratory

Sample No.

Lab Number

Unique Number

Contact/Location: TONY HILDY - GRAELK

F:

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