

OIL ANALYSIS REPORT

[185834-N2STV4W]

DANA 220513-001374 (6-9 TON LINE)

Wet Disc Brake

DEXRON III (0 LTR)

Sample Rating Trend

NORMAL

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

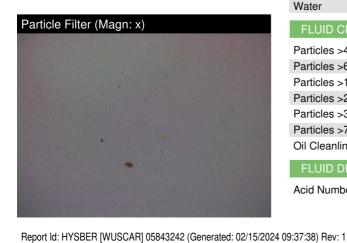
Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|-----------------|--------|--------------|------------|-------------|----------|----------|
| Sample Number | | Client Info | | PH05843242 | | |
| Sample Date | | Client Info | | 04 May 2023 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | NORMAL | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | <1 | | |
| Chromium | ppm | ASTM D5185m | >10 | <1 | | |
| Nickel | ppm | ASTM D5185m | >10 | 1 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | | 0 | | |
| Aluminum | ppm | ASTM D5185m | >10 | 0 | | |
| Lead | ppm | ASTM D5185m | >10 | <1 | | |
| Copper | ppm | ASTM D5185m | >75 | 0 | | |
| Tin | ppm | ASTM D5185m | >10 | <1 | | |
| Vanadium | ppm | ASTM D5185m | | <1 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 18 | | |
| Barium | ppm | ASTM D5185m | | 0 | | |
| Molybdenum | ppm | ASTM D5185m | | <1 | | |
| Manganese | ppm | ASTM D5185m | | <1 | | |
| Magnesium | ppm | ASTM D5185m | | 3 | | |
| Calcium | ppm | ASTM D5185m | | 25 | | |
| Phosphorus | ppm | ASTM D5185m | | 112 | | |
| Zinc | ppm | ASTM D5185m | | 7 | | |
| Sulfur | ppm | ASTM D5185m | | 681 | | |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >20 | <1 | | |
| Sodium | ppm | ASTM D5185m | | 2 | | |
| Potassium | ppm | ASTM D5185m | >20 | 3 | | |
| Water | % | ASTM D6304 | >0.1 | NEG | | |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >10000 | 3781 | | |
| Particles >6µm | | ASTM D7647 | >2500 | 412 | | |
| Particles >14µm | | ASTM D7647 | >320 | 10 | | |
| Particles >21µm | | ASTM D7647 | >80 | 3 | | |
| Particles >38µm | | ASTM D7647 | >20 | 0 | | |
| Particles >71µm | | ASTM D7647 | >4 | 0 | | |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | 19/16/10 | | |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |



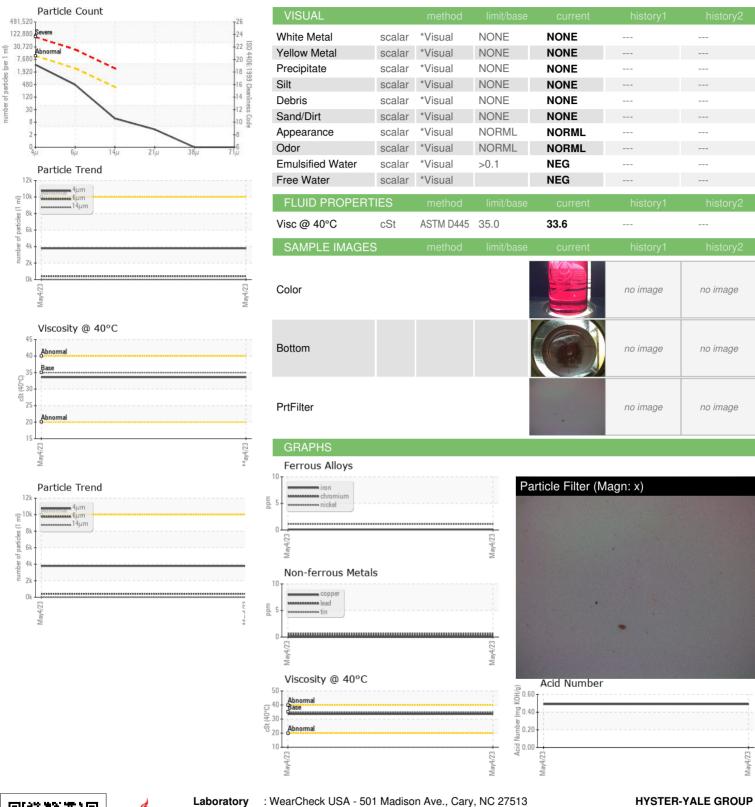
Acid Number (AN)

mg KOH/g ASTM D8045

0.49



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Laboratory Sample No.

Lab Number : 05843242 **Unique Number** : 10467349

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

: PH05843242 Received **Tested**

Diagnosed Test Package: PLANT (Additional Tests: KF)

: 10 May 2023 : 17 May 2023

: 17 May 2023 - Doug Bogart

2200 MENELAUS PIKE BEREA, KY US 40403

Contact: WARREN WILLIAMS warren.williams@hyster-yale.com T: (859)228-1524

Contact/Location: WARREN WILLIAMS - HYSBER

* - 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)