

OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id **CATERPILLAR 745D 13408 (S/N 3T606520)** Hydraulic System Fluid

TDH FLUID SAE 70W80 (--- GAL)

| DIAGNOSIS | |
|-----------|--|
| | |

Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TDH FLUID SAE 70W80. Please confirm.

Wear

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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

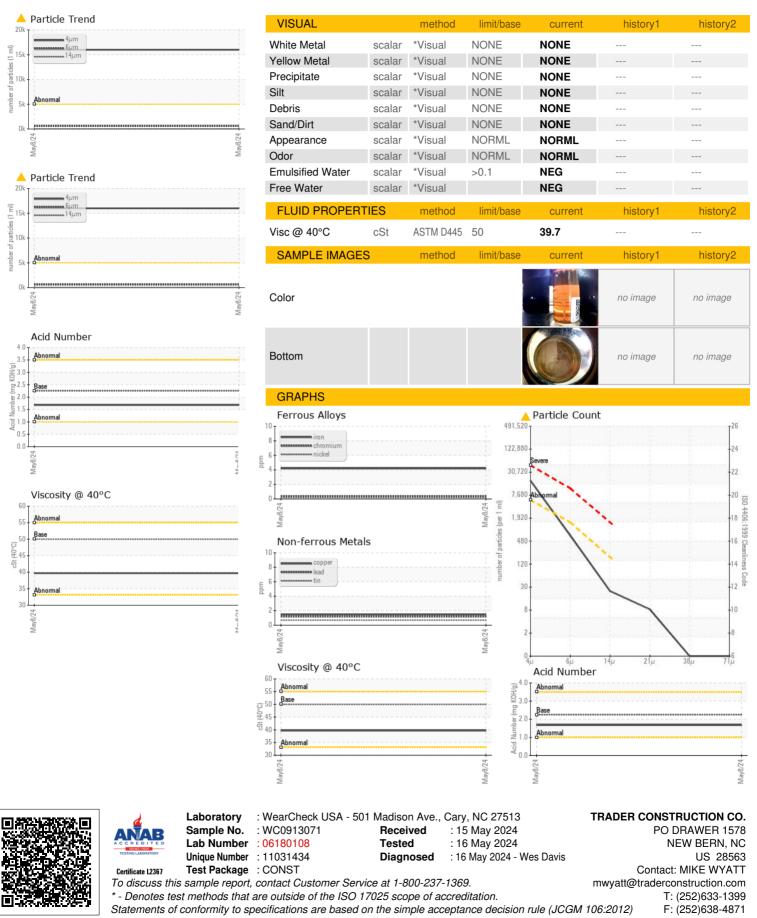
| SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
|--|-------------------------------|--|---------------------------------------|---------------------------------|----------|----------|
| Sample Number | | Client Info | | WC0913071 | | |
| Sample Date | | Client Info | | 08 May 2024 | | |
| Machine Age | hrs | Client Info | | 2253 | | |
| Oil Age | hrs | Client Info | | 2253 | | |
| Oil Changed | | Client Info | | Not Changd | | |
| Sample Status | | | | ABNORMAL | | |
| CONTAMINATION | | 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 | 4 | | |
| Chromium | ppm | ASTM D5185m | >10 | <1 | | |
| Nickel | ppm | ASTM D5185m | >10 | <1 | | |
| Titanium | ppm | ASTM D5185m | | <1 | | |
| Silver | ppm | ASTM D5185m | | <1 | | |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | | |
| Lead | ppm | | >10 | 1 | | |
| Copper | ppm | ASTM D5185m | | 2 | | |
| Tin | ppm | | >10 | <1 | | |
| Vanadium | ppm | ASTM D5185m | 210 | <1 | | |
| Cadmium | ppm | ASTM D5185m | | <1 | | |
| | PPIII | | | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 10 | 0 | | |
| Barium | ppm | ASTM D5185m | 10 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 10 | <1 | | |
| Manganese | ppm | ASTM D5185m | | <1 | | |
| Magnesium | ppm | ASTM D5185m | 100 | 11 | | |
| Calcium | ppm | ASTM D5185m | 3500 | 3053 | | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1127 | | |
| Zinc | ppm | ASTM D5185m | 1150 | 1280 | | |
| Sulfur | ppm | ASTM D5185m | 5000 | 5658 | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >20 | 7 | | |
| Sodium | ppm | ASTM D5185m | | <1 | | |
| Potassium | ppm | ASTM D5185m | >20 | 2 | | |
| FLUID CLEANLINE | ESS | method | limit/base | current | history1 | history2 |
| | | ASTM D7647 | >5000 | 人 15997 | | |
| Particles >4µm | | | | 500 | | |
| | | ASTM D7647 | >1300 | 590 | | |
| Particles >6µm | | ASTM D7647 ASTM D7647 | >1300 >160 | 21 | | |
| Particles >6µm Particles >14µm | | | >160 | | | |
| Particles >6µm Particles >14µm Particles >21µm | | ASTM D7647 | >160 | 21 | | |
| Particles >6µm Particles >14µm Particles >21µm Particles >38µm | | ASTM D7647 ASTM D7647 | >160 >40 >10 | 21 7 | | |
| Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm | | ASTM D7647 ASTM D7647 ASTM D7647 | >160 >40 >10 | 21 7 0 | | |
| Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm | ΓΙΟΝ | ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | >160 >40 >10 >3 | 21 7 0 0 | | |
| | <mark>ГІОN</mark> mg KOH/g | ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c) | >160 >40 >10 >3 >19/17/14 | 21 7 0 0 ▲ 21/16/12 | | |

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