

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

OIL ANALYSIS REPORT

Machine Id GROVE 5275 VALVE 1 Component Hydraulic System Fluid TRC HYDRAULIC OIL ISO 32- SAE10W (--- GAL)

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History |
|--|-------------------|--------|--------------|-----------|---------------|----------|---------|
| | Sample Number | | Client Info | | TR03453556 | | |
| We recommend you service the filters on this component. Resample at the next service interval to monitor. | e at Sample Date | | Client Info | | 13 Feb 2014 | | |
| | Machine Age | hrs | Client Info | | 0 | | |
| | Oil Age | hrs | Client Info | | 0 | | |
| | Filter Age | hrs | Client Info | | 0 | | |
| | Oil Changed | | Client Info | | N/A | | |
| | Filter Changed | | Client Info | | N/A | | |
| | Sample Status | | | | ABNORMAL | | |
| | | | | | | | |
| WEAR All component wear rates are normal. | Iron | ppm | ASTM D5185m | | 15 | | |
| | Chromium | ppm | ASTM D5185m | >10 | 1 | | |
| | Nickel | ppm | ASTM D5185m | | <1 | | |
| | Titanium | ppm | ASTM D5185m | | <1 | | |
| | Silver | ppm | ASTM D5185m | 10 | 0 | | |
| | Aluminum | ppm | ASTM D5185m | | 4 | | |
| | Lead | ppm | ASTM D5185m | | 6 | | |
| | Copper | ppm | ASTM D5185m | | 34 | | |
| | Tin | ppm | ASTM D5185m | >10 | 0 | | |
| | Vanadium | ppm | ASTM D5185m | | 0 | | |
| | White Metal | scalar | *Visual | NONE | NONE | | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >20 | 5 | | |
| | Potassium | ppm | ASTM D5185m | >20 | 4 | | |
| There is a high amount of particulates present in the oil. | Water | % | ASTM D6304 | >0.1 | 0.037 | | |
| | ppm Water | ppm | ASTM D6304 | >1000 | 370 | | |
| | Particles >4µm | | ASTM D7647 | | 5584 | | |
| | Particles >6µm | | ASTM D7647 | >1300 | A 3042 | | |
| | Particles >14µm | | ASTM D7647 | >160 | 518 | | |
| | Particles >21µm | | ASTM D7647 | >40 | 1 74 | | |
| | Particles >38µm | | ASTM D7647 | >10 | A 27 | | |
| | Particles >71µm | | ASTM D7647 | >3 | 2 | | |
| | Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 🔺 20/19/16 | | |
| | Silt | scalar | *Visual | NONE | NONE | | |
| | Debris | scalar | *Visual | NONE | LIGHT | | |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | | |
| | Appearance | scalar | *Visual | NORML | NORML | | |
| | , .pp 0 a. a. 100 | | | | | | |
| | Odor | scalar | *Visual | NORML | NORML | | |

Sodium

Boron

Barium

Molybdenum

Manganese

Magnesium

Phosphorus

Calcium

Zinc

Sulfur

ppm

Visc @ 100°C cSt ASTM D445 5.8

Acid Number (AN) mg KOH/g ASTM D8045

ASTM D5185m

ASTM D5185m 1000

FLUID CONDITION

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

1

1

0

1

<1

8

74

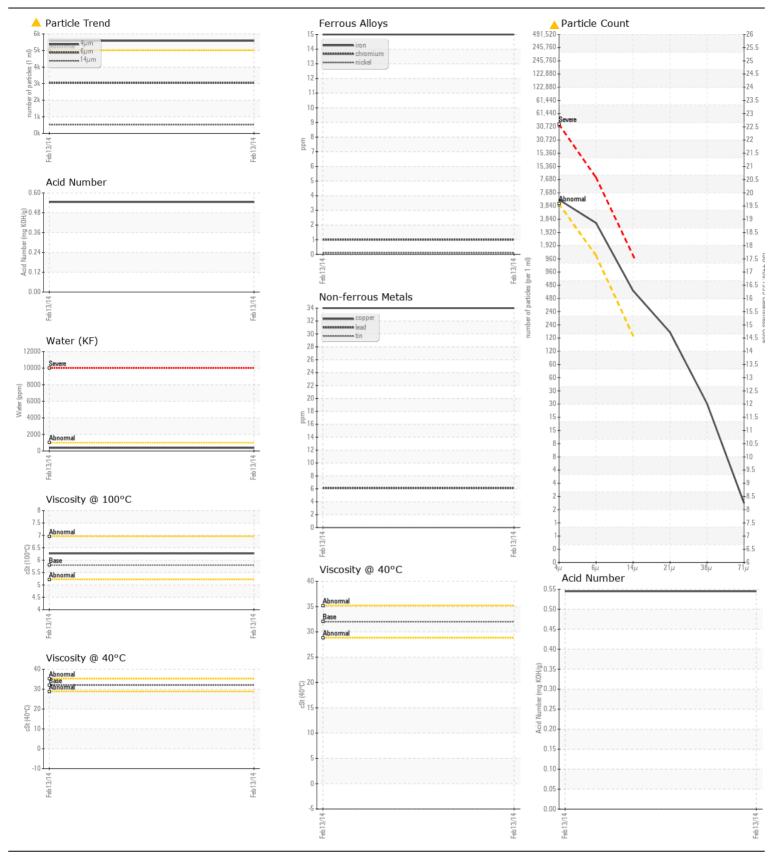
336

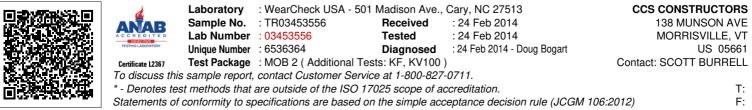
368

2681

0.545

6.27





Contact/Location: SCOTT BURRELL - CCSMOR Page 2 of 2