

## **OIL ANALYSIS REPORT**

### Area TM 11 Machine Id TM 11 DRY BROKE AGT REDUCER

Gearbox

ROYAL PURPLE SYNERGY 90/220 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

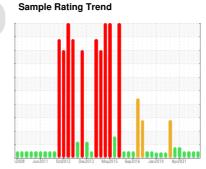
All component wear rates are normal.

#### 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.





NORMAL

#### SAMPLE INFORMATION method RP0034364 RP0016699 RP0023581 Sample Number **Client Info** Sample Date Client Info 08 Aug 2023 05 May 2023 30 Mar 2022 0 0 Machine Age hrs **Client Info** 0 Oil Age hrs Client Info n 0 0 Oil Changed Client Info N/A N/A N/A NORMAL Sample Status NORMAL NORMAL WEAR METALS PQ 8 14 **ASTM D8184** ASTM D5185m >200 29 28 30 Iron ppm Chromium ppm ASTM D5185m >15 <1 0 <1 Nickel ASTM D5185m >15 <1 0 0 ppm Titanium ppm ASTM D5185m 0 <1 0 Silver ASTM D5185m 0 0 ppm <1 Aluminum ASTM D5185m >25 <1 ppm <1 <1 0 0 Lead ASTM D5185m >100 ppm <1 Copper ppm ASTM D5185m >200 <1 0 <1 ASTM D5185m >25 0 Tin ppm <1 <1 Antimony ppm ASTM D5185m >5 ----Vanadium ASTM D5185m 0 0 0 ppm Cadmium ASTM D5185m 0 0 0 ppm 39 38 34 Boron ASTM D5185m ppm 19 0 Barium ppm ASTM D5185m 0 0 0 Molybdenum ASTM D5185m ppm <1 Manganese ppm ASTM D5185m <1 <1 <1 0 Magnesium ppm ASTM D5185m <1 0 Calcium ASTM D5185m 2 0 6 ppm 370 424 Phosphorus ASTM D5185m 450 463 ppm Zinc ASTM D5185m 50 14 33 ppm Silicon ASTM D5185m >50 6 5 5 ppm Sodium ppm ASTM D5185m 3 2 <1 >20 0 0 Potassium ppm ASTM D5185m 0 0.013 % ASTM D6304 >0.2 0.015 0.015 Water ppm Water ppm ASTM D6304 >2000 159.0 150.8 134.3 FLUID CLEANLINESS >20000 3628 2587 17399 Particles >4µm ASTM D7647 Particles >6µm ASTM D7647 >5000 765 238 2392 Particles >14µm ASTM D7647 >640 157 9 98 Particles >21µm ASTM D7647 >160 44 2 20 ASTM D7647 1 0 Particles >38µm >40 1 0 0 0 Particles >71um ASTM D7647 >10 **Oil Cleanliness** ISO 4406 (c) >21/19/16 19/17/14 19/15/10 21/18/14 FLUID DEGRADATION

Acid Number (AN) m

mg KOH/g ASTM D8045 1.33

**1.71** 2.00 1.66

Report Id: KIMMOBTM11 [WUSCAR] 05994356 (Generated: 11/01/2023 16:27:08) Rev: 1

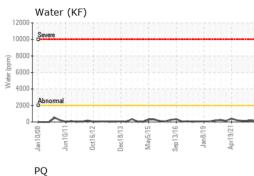
Contact/Location: LARRY WEAVER - KIMMOBTM11



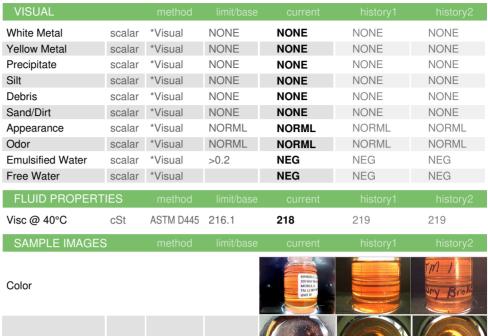
Particle Trend

100

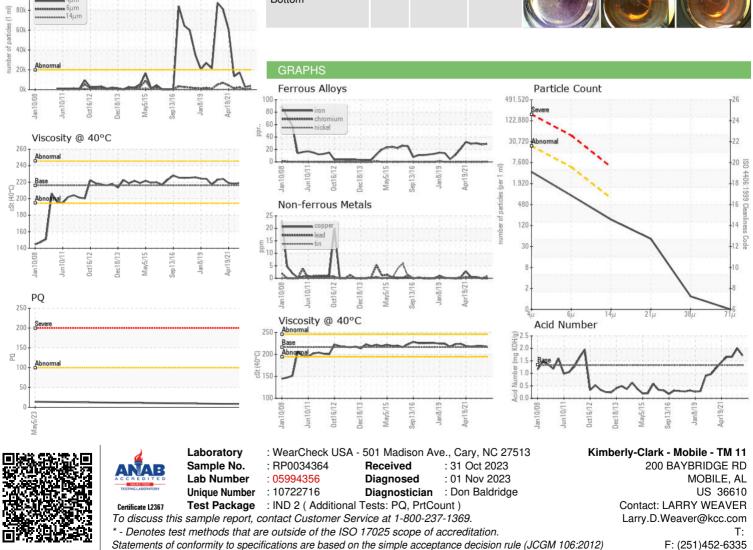
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Bottom



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