OIL ANALYSIS REPORT

ZF 20038113 - INBOARD - STARBOARD GEARBOX

Sample No: VPA044372

Oil Type: SHELL ROTELLA T 30

SAMPLE INFORMATION VPA044372 Sample Number Sample Date 21 Aug 2023 Machine Hours 810 70 **Oil Hours** Oil Changed Not Changd SEVERE Sample Status **OIL CONDITION** Visc @ 40°C cSt 96.8 CONTAMINATION Silicon ppm 3 Sodium ppm 18 Potassium 1 ppm WEAR METALS PO 16 Iron 13 ppm 194 🛑 Copper ppm Lead ppm 243 Tin ppm 2 4 Aluminum ppm Chromium ppm **||** <1 Molybdenum 24 ppm Nickel 0 ppm 0 Titanium ppm Silver 0 ppm Manganese 1 ppm Vanadium 0 ppm **ADDITIVES** Calcium 2956 ppm Magnesium 114 ppm Zinc ppm 960 Phosphorus ppm 833 Barium 0 🔲 ppm 6 Boron ppm



SMART DIESEL SERVICE

102 NW 133RD AVE, UNIT 103 PLANTATION, FL US 33325 Contact: ANDRES GARMENDIA smartdieselservice@gmail.com T: (954)258-8100 F:

Diagnosis

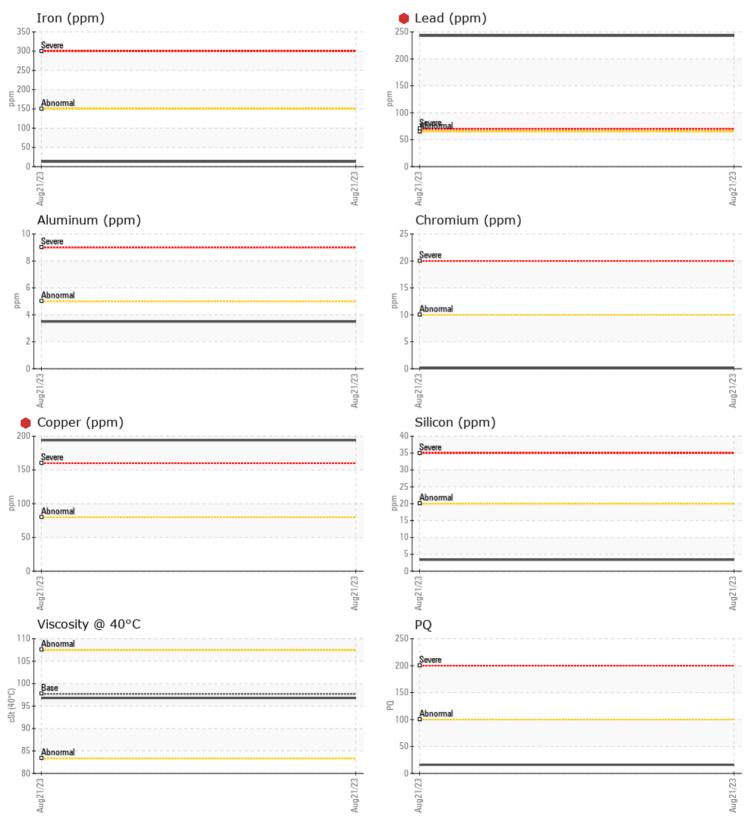
We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Clutch wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:VPSMAPLAUnique No:10617600Signed:Jonathan HesterReport Date:25 Aug 2023

OIL ANALYSIS REPORT



GRAPHS



Report Id: VPSMAPLA [WUSCAR] 05932329 (Generated: 08/25/2023 12:10:45) Rev: 1

Contact/Location: ANDRES GARMENDIA - VPSMAPLA