OIL ANALYSIS REPORT

DAVID LEIMAN ZF 20094530 - INBOARD - PORT GEARBOX

Sample No: VPA055678

Oil Type: CAT TDTO 30W

SAMPLE INFORMATION Sample Number VPA055678 Sample Date 18 Sep 2023 Machine Hours 753 **Oil Hours** 95 Oil Changed Not Changd NORMAL Sample Status **OIL CONDITION** F: Visc @ 40°C cSt 94.8 CONTAMINATION Silicon ppm 4 Sodium ppm 3 Potassium 0 ppm WEAR METALS PO 13 Iron 5 ppm Copper ppm 32 Lead ppm 27 Tin 1 ppm 3 Aluminum ppm Chromium ppm **||** <1 Molybdenum 8 ppm Nickel 0 🔲 ppm Titanium ppm <1 Silver 0 ppm Manganese 1 ppm Vanadium 0 ppm **ADDITIVES** Calcium 3073 ppm Magnesium 17 ppm Zinc ppm 1167 Phosphorus ppm 1010 Barium 0 🔲 ppm **||** <1 Boron ppm



McDonnell Marine Service 63 Old Windsor Rd. BLOOMFIELD, CT US 06002-1404 Contact: Brian McDonnell brmcdonnell@comcast.net T:

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

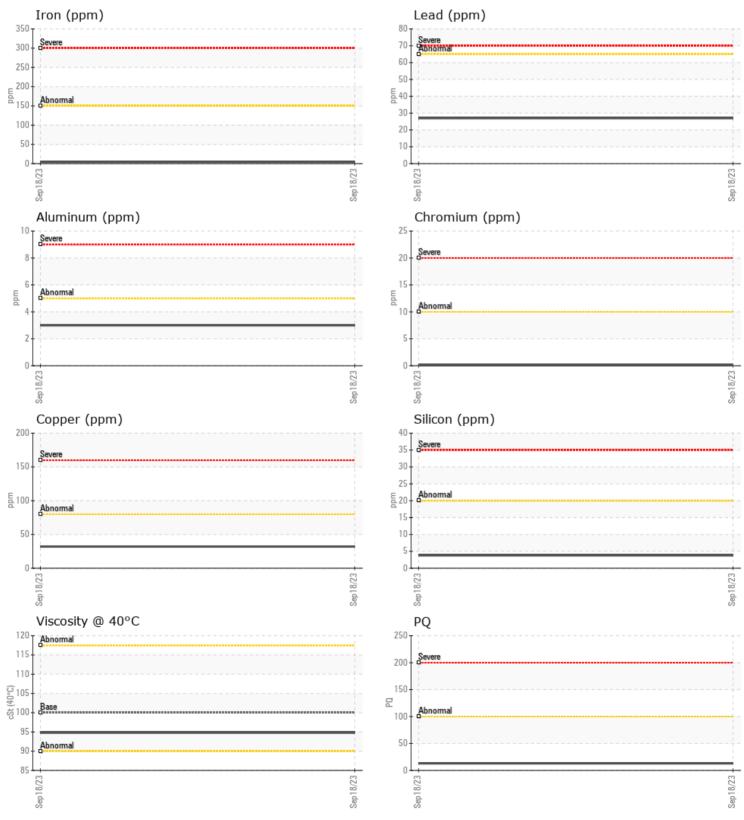
Depot:	VP153357
Unique No:	10661283
Signed:	Sean Felton
Report Date:	26 Sep 2023

Contact/Location: Brian McDonnell - VP153357

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GRAPHS



Report Id: VP153357 [WUSCAR] 05960070 (Generated: 09/27/2023 20:08:42) Rev: 1

Contact/Location: Brian McDonnell - VP153357