OIL ANALYSIS REPORT

RUN RATE ZF 20322393 - INBOARD - STARBOARD GEARBOX

Sample No: VPA056180

Oil Type: SAE 30W

SAMPLE INFORMATION

Sample Number Sample Date Machine Hours Oil Hours Oil Changed Sample Status		VPA056180 31 Aug 2023 342 0 N/A NORMAL	 	
OIL CONDITION				
Visc @ 40°C	cSt	82.4	 	
CONTAMINATION				
Silicon	ppm	8	 	
Sodium	ppm	6	 	
Potassium	ppm	2	 	
WEAR METALS				
PQ		4 9	 	
Iron	ppm	80	 	
Copper	ppm	162	 	
Lead	ppm	9	 	
Tin	ppm	8	 	
Aluminum	ppm	5	 	
Chromium	ppm	1	 	
Molybdenum	ppm	55	 	
Nickel	ppm	0	 	
Titanium	ppm	 <1	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	2174	 	
Magnesium	ppm	221	 	
Zinc	ppm	751	 	
Phosphorus	ppm	997	 	
Barium	ppm	0	 	
Boron	ppm	205	 	

VOLVO PENTA

MARINE DIESEL SERVICES INC 1711 WHITTIER AVE, SUITE B

COSTA MESA, CA US 92627 Contact: BEN ALMAZAN marinedieselservices@outlook.com T: (949)612-8180 F: x:

Diagnosis

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

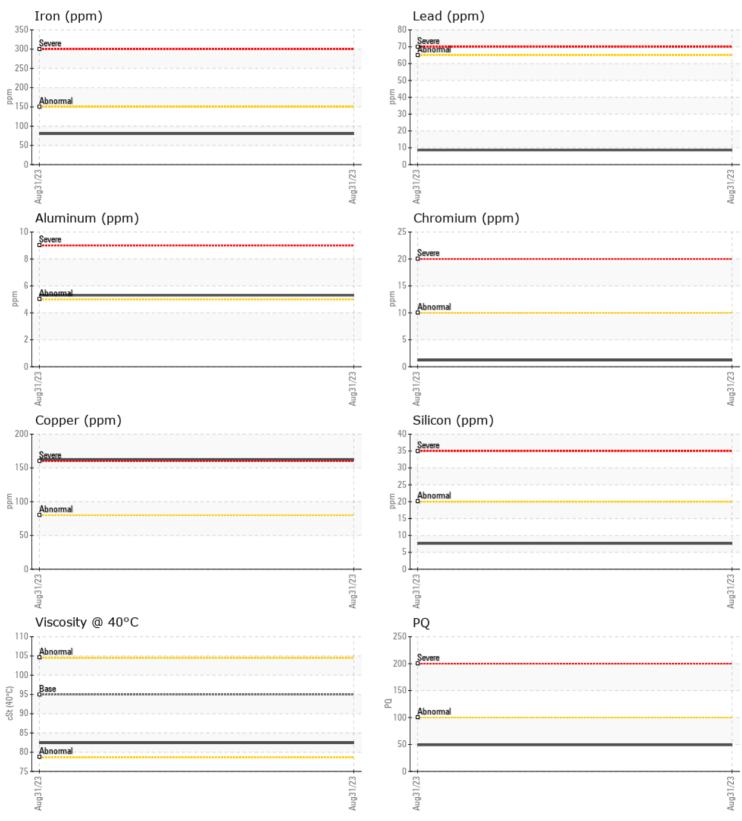
Depot:	VP288530		
Unique No:	10632163		
Signed:	Doug Bogart		
Report Date:	05 Sep 2023		

Contact/Location: BEN ALMAZAN - VP288530

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP288530 [WUSCAR] 05941551 (Generated: 09/05/2023 22:29:08) Rev: 1

Contact/Location: BEN ALMAZAN - VP288530