OIL ANALYSIS REPORT

WILLIAMS VOLVO PENTA 3200000698 - STARBOARD IPS

Sample No: VPA045625

Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORM	ATION			
Sample Number		VPA045625	 	
Sample Date		29 Nov 2023	 	
Machine Hours		752	 	
Oil Hours		170	 	
Oil Changed		Not Changd	 	
Sample Status		SEVERE	 	
OIL CONDITION				
Visc @ 40°C	cSt	108	 	
CONTAMINATION				
Water	%	1.82	 	
Silicon	ppm	2	 	
Sodium	ppm	 192	 	
Potassium	ppm	8	 	
WEAR METALS				
PQ		23	 	
Iron	ppm	A 377	 	
Copper	ppm	37	 	
Lead	ppm	0	 	
Tin	ppm	<1	 	
Aluminum	ppm	1 7	 	
Chromium	ppm	2	 	
Molybdenum	ppm	 <1	 	
Nickel	ppm	5	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	4	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	21	 	
Magnesium	ppm	25	 	
Zinc	ppm	99	 	
Phosphorus	ppm	1369	 	
Barium	ppm	0	 	
Boron	ppm	274	 	



Blue Water Marine Repair 4924 17 Ave. South GULFPORT, FL JS 33707 Contact: Peter Kopp owmarinerepair@gmail.com T: (727)327-6512

Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

 Depot:
 VP151824

 Unique No:
 10768653

 Signed:
 Jonathan Hester

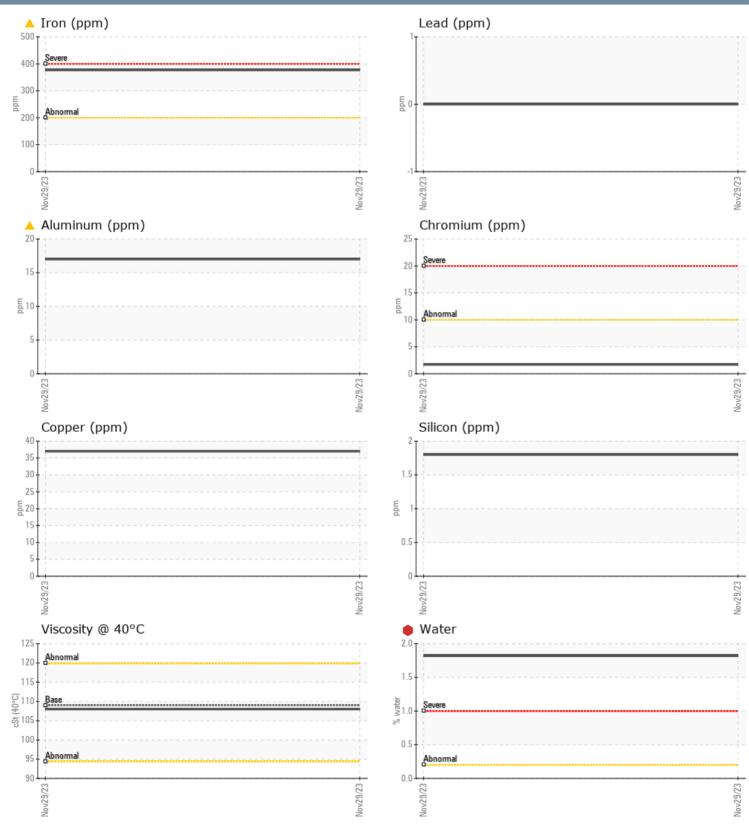
 Report Date:
 06 Dec 2023

Contact/Location: Peter Kopp - VP151824

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Report Id: VP151824 [WUSCAR] 06024153 (Generated: 12/08/2023 15:43:21) Rev: 1

Contact/Location: Peter Kopp - VP151824