OIL ANALYSIS REPORT

JEREMY MCDONALD VOLVO PENTA A391429 - STARBOARD DIESEL ENGINE

Sample No: VPA042247

Oil Type: VOLVO

SAMPLE INFORMATION

Sample Number		VPA042247	 	
Sample Date		07 Dec 2023	 	
Machine Hours		235	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
OIL CONDITION				
Visc @ 100°C	cSt	15.1	 	
Oxidation (PA)	%	24	 	
Oxidation (FA)	70	24	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0	 	
Nitration (PA)	%	28	 	
Sulfation (PA)	%	64	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	8	 	
Sodium	ppm	0	 	
Potassium	ppm	0	 	
WEAR METALS				
Iron	ppm	1 5	 	
Copper	ppm	3	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	0	 	
Chromium	ppm	0	 	
Molybdenum	ppm	□1	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	

Vanadium ADDITIV<u>ES</u>

Manganese

ppm

ppm

Calcium	ppm	A 30	 	
Magnesium	ppm	11	 	
Zinc	ppm	<u> </u>	 	
Phosphorus	ppm	1332	 	
Barium	ppm	0	 	
Boron	ppm	333	 	

SINGLETON MARINE

6930 LANIER ISLANDS PKWY BUFORD, GA US 30002 Contact: DJ HARDEE dj@singletonmarinegroup.com T: (770)614-3007 F:

Diagnosis

We advise an early resample to confirm this situation. Confirm component type.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate gear oil. Confirm oil type.

 Depot:
 VP159751

 Unique No:
 10780105

 Signed:
 Doug Bogart

 Report Date:
 13 Dec 2023

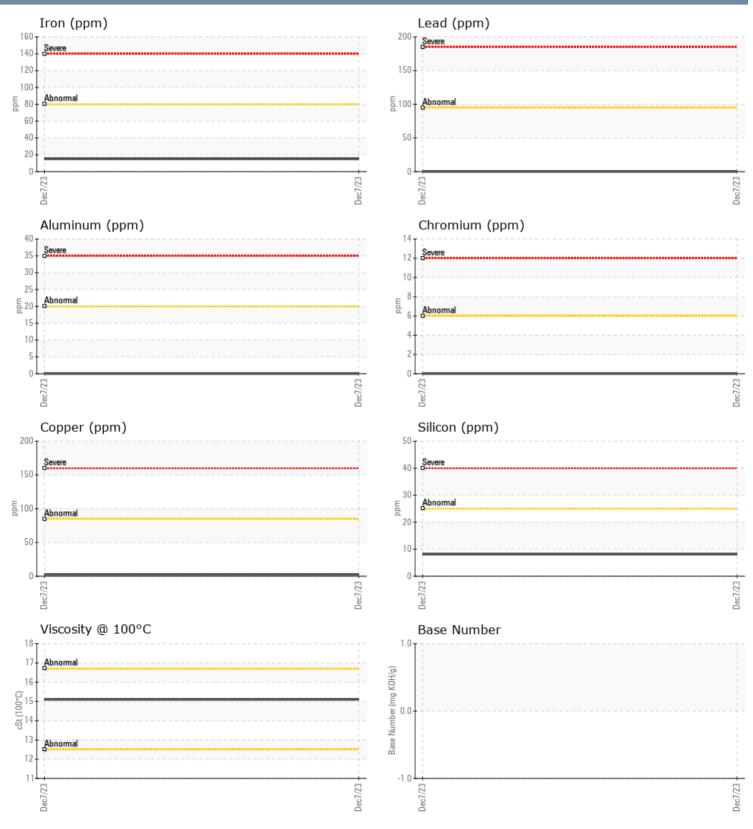
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OIL ANALYSIS REPORT



GRAPHS



Report Id: VP159751 [WUSCAR] 06030314 (Generated: 12/13/2023 10:10:30) Rev: 1

Contact/Location: DJ HARDEE - VP159751