OIL ANALYSIS REPORT

MILLER VOLVO PENTA 5103932844H - CENTER DIESEL ENGINE

Sample No: VPA055214

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number		VPA055214	 	
Sample Date		04 Aug 2023	 	
Machine Hours		650		
Oil Hours		50	 	
Oil Changed		Changed	 	
Sample Status		SEVERE	 	
OIL CONDITION				
	cSt	11.4	 	
Base Number (BN)	mg KOH/g	8.5	 	
Oxidation (PA)	%	61	 	
CONTAMINATION				
Soot %	%	0.3	 	
Nitration (PA)	%	65	 	
Sulfation (PA)	%	52	 	
Glycol	%	NEG	 	
Fuel	%	9.8	 	
Silicon	ppm	3	 	
Sodium	ppm	18	 	
Potassium	ppm	2	 	

WEAR METALS

Iron	ppm	20	 	
Copper	ppm	2	 	
Lead	ppm	□<1	 	
Tin	ppm	■<1	 	
Aluminum	ppm	5	 	
Chromium	ppm	5	 	
Molybdenum	ppm	52	 	
Nickel	ppm	1	 	
Titanium	ppm	 <1	 	
Silver	ppm	0	 	
Manganese	ppm	□<1	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	1174	 	
Magnesium	ppm	816	 	
Zinc	ppm	1166	 	
Phosphorus	ppm	945	 	
Barium	ppm	0	 	
Boron	ppm	37	 	

Outstanding Marine

PO Box 274 GALENA, MD US 21635 Contact: Ronda Bolinger rlwb@verizon.net T: F:

Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

 Depot:
 VP153685

 Unique No:
 10601857

 Signed:
 Jonathan Hester

 Report Date:
 14 Aug 2023

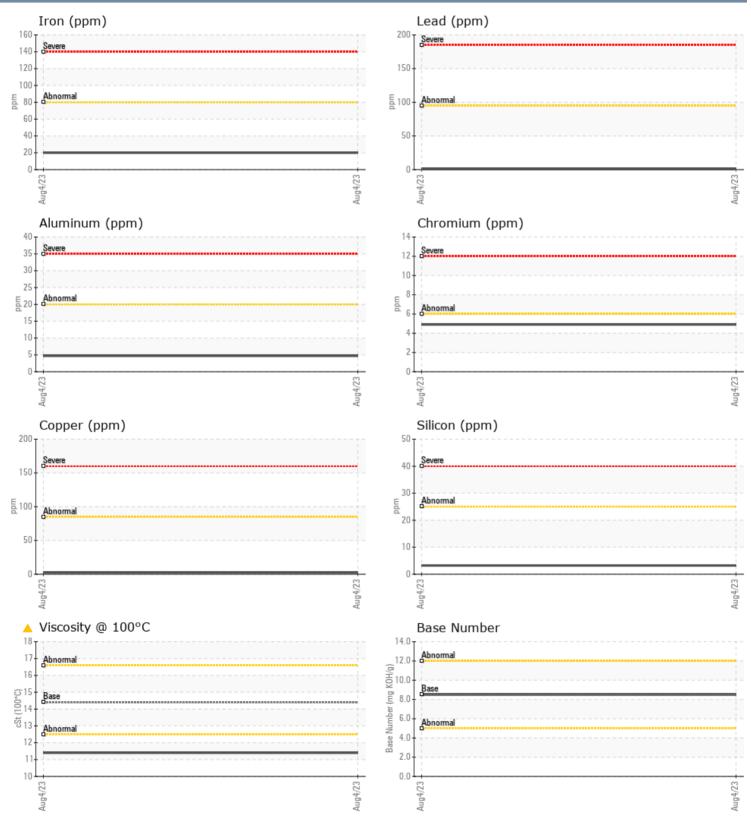
Contact/Location: Ronda Bolinger - VP153685



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GRAPHS



Report Id: VP153685 [WUSCAR] 05921910 (Generated: 08/14/2023 11:16:28) Rev: 1

Contact/Location: Ronda Bolinger - VP153685