OIL ANALYSIS REPORT

COSGROVE VOLVO PENTA A 1080852 - PORT DIESEL ENGINE

Sample No:VPA021835Oil Type:NOT GIVEN

SAMPLE INFORMATION

Sample Number		VPA021835	 	
Sample Date		06 Nov 2023	 	
Machine Hours		50	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.44	 	
Base Number (BN)	mg KOH/g	10.0	 	
Oxidation (PA)	%	57	 	
Oxidation (PA)		_	 	
. ,		_	 	
Oxidation (PA)	%	57	 	
Oxidation (PA) CONTAMINATION Soot %	%	57	 	
Oxidation (PA) CONTAMINATION Soot %	%	57		
Oxidation (PA) CONTAMINATION Soot % Nitration (PA)	%	57	 	
Oxidation (PA) CONTAMINATION Soot % Nitration (PA) Sulfation (PA)	% % %	57 0.1 41	 	
Oxidation (PA) CONTAMINATION Soot % Nitration (PA) Sulfation (PA) Glycol	% % %	57 0.1 41 52	 	
Oxidation (PA) CONTAMINATION Soot % Nitration (PA) Sulfation (PA)	% % % %	57 0.1 41 52 NEG	 	
Oxidation (PA) CONTAMINATION Soot % Nitration (PA) Sulfation (PA) Glycol Fuel	% % % % %	57 0.1 41 52 NEG <1.0	 	

WEAR METALS

Iron	ppm	10	 	
Copper	ppm	3	 	
Lead	ppm	□<1	 	
Tin	ppm	■<1	 	
Aluminum	ppm	2	 	
Chromium	ppm	 <1	 	
Molybdenum	ppm	61	 	
Nickel	ppm	■<1	 	
Titanium	ppm	□<1	 	
Silver	ppm	0	 	
Manganese	ppm	<1	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	1140	 	
Magnesium	ppm	879	 	
Zinc	ppm	1141	 	
Phosphorus	ppm	1043	 	
Barium	ppm	5	 	
Boron	ppm	9	 	

Outstanding Marine

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

Diagnosis

No corrective action is recommended at this time. 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:
 VP153685

 Unique No:
 10729235

 Signed:
 Doug Bogart

 Report Date:
 07 Nov 2023



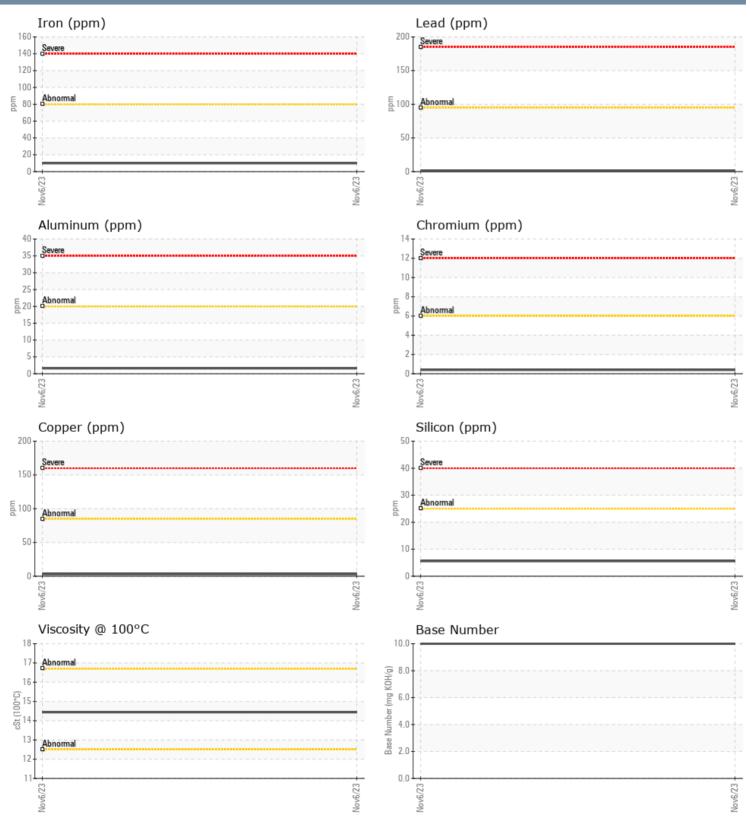
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Contact/Location: Ronda Bolinger - VP153685

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP153685 [WUSCAR] 06000875 (Generated: 11/07/2023 16:49:26) Rev: 1

Contact/Location: Ronda Bolinger - VP153685