OIL ANALYSIS REPORT

CHRISTOPHER KSIDAKIS PATRICK 502046-5250 VOLVO PENTA 20132045049 - PORT DIESEL ENGINE

Sample No: VPA055884

Oil Type: VOLVO PENTA VDS 4.5

SAMPLE INFORMATION

Sample Number		VPA055884	 	
Sample Date		28 Jun 2023	 	
Machine Hours		113	 	
Oil Hours		113	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.2	 	
Base Number (BN)		8.4	 	
Oxidation (PA)	%	35	 	
CONTAMINATION				
Soot %	%	0.1	 	
	%	0.1 38	 	
Soot % Nitration (PA) Sulfation (PA)				
Nitration (PA)	%	38	 	
Nitration (PA) Sulfation (PA)	%	38 41	 	
Nitration (PA) Sulfation (PA) Glycol	% % %	38 41 NEG	 	
Nitration (PA) Sulfation (PA) Glycol Fuel	% % % %	38 41 NEG <1.0	 	
Nitration (PA) Sulfation (PA) Glycol Fuel Silicon	% % % % ppm	38 41 NEG <1.0		

Iron	ppm	12	 	
Copper	ppm	48	 	
Lead	ppm	1	 	
Tin	ppm	2	 	
Aluminum	ppm	4	 	
Chromium	ppm	■ <1	 	
Molybdenum	ppm	16	 	
Nickel	ppm	■ <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	1148	 	
Magnesium	ppm	937	 	
Zinc	ppm	1146	 	
Phosphorus	ppm	1008	 	
Barium	ppm	0	 	
Boron	ppm	4 4	 	

Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703 F: (206)784-8823

Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP794951 Unique No: 10545725 Signed: Don Baldridge Report Date: 06 Jul 2023

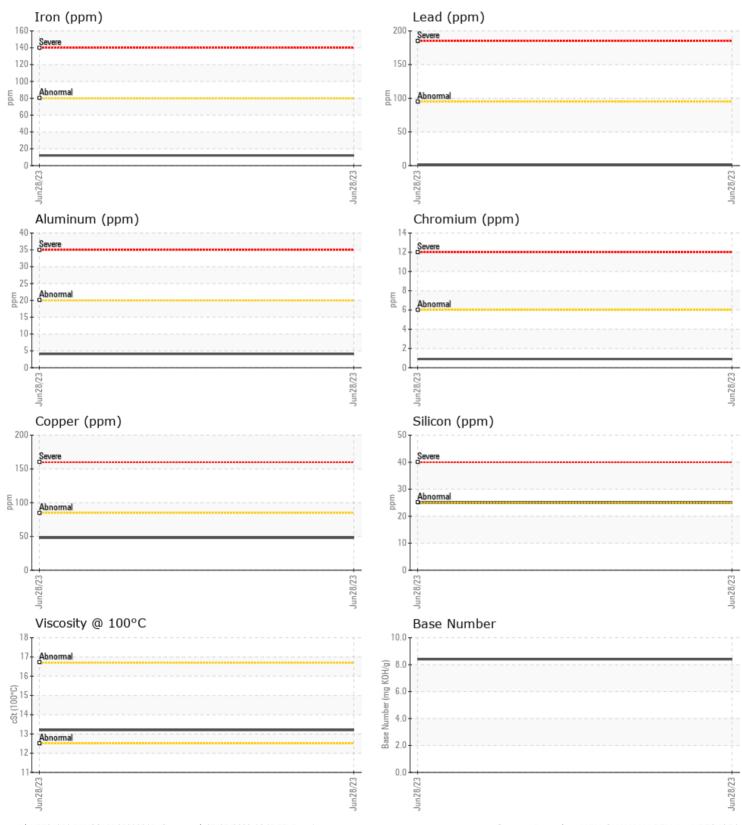
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OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: WILLOW YANARELLA - VP794951