OIL ANALYSIS REPORT

NADINE URCIUOLI NANCY HATTERSLEY VOLVO PENTA A 1093658 - CENTER DIESEL ENGINE

Sample No: VPA051584

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Sample Number		VPA051584				
Sample Date		08 May 2024				Helmuts Marine Service
Machine Hours		222				619 Canal Street
Oil Hours		222				SAN RAFAEL, CA
Oil Changed		Changed				US 94901-3545
Sample Status		ATTENTION				Contact: NADINE URCIU
OIL CONDITION						T: x:
/isc @ 100°C	cSt	12.8				F: x:
Base Number (BN)	mg KOH/g	9.8				D ¹
Oxidation (PA)	%	59				Diagnosis
CONTAMINATION						Oil and filter change at the sampling has been noted corrective action is recommended as the sampling has been noted corrective action is recommended as the same same same same same same same sam
Water	%	NEG				this time. Resample at th
Soot %	%	0.1				service interval to monitor
Nitration (PA)	%	46				aluminum level is abnorr
Sulfation (PA)	%	52				metal levels are typical for
Glycol	%	NEG				component breaking in.
Fuel	%	<1.0				indication of any contam
Silicon	ppm	25				the oil. The BN result ind there is suitable alkalinity
Sodium	ppm	13				in the oil. The condition
Potassium	ppm	6				acceptable for the time i
WEAR METALS	ppm	26				
Copper	ppm	□ 16				
_ead	ppm	7				
Tin	ppm	4				
	ppm	5 0				
Aluminum						
		6				
Chromium	ppm	□ 6 □ 56				
Chromium Molybdenum	ppm ppm	56				
Aluminum Chromium Molybdenum Nickel Titanium	ppm ppm ppm	56 5				
Chromium Molybdenum Nickel Titanium	ppm ppm ppm ppm	56 5 2				
Chromium Molybdenum Nickel Titanium Silver	ppm ppm ppm ppm ppm	56 5 2 3				
Chromium Molybdenum Nickel Fitanium Silver Manganese	ppm ppm ppm ppm	56 5 2		 		
Chromium Molybdenum Nickel Fitanium	ppm ppm ppm ppm ppm ppm	56 5 2 3 3		 		
Chromium Molybdenum Nickel Fitanium Silver Manganese /anadium	ppm ppm ppm ppm ppm ppm	56 5 2 3 3		 		
Chromium Molybdenum Nickel Titanium Silver Manganese Manganese Manadium	ppm ppm ppm ppm ppm ppm ppm	56 5 2 3 3 2	 			
Chromium Molybdenum Nickel Titanium Silver Manganese Manganese Anadium ADDITIVES Calcium	ppm ppm ppm ppm ppm ppm ppm	56 5 2 3 3 2 1165	 			
Chromium Aolybdenum Jickel iitanium iilver Aanganese Yanadium ADDITIVES Calcium Aagnesium Cinc	ppm ppm ppm ppm ppm ppm ppm	56 5 2 3 3 2 1165 836				
Chromium Aolybdenum Vickel Titanium Silver Aanganese Vanadium ADDITIVES Calcium Aagnesium	ppm ppm ppm ppm ppm ppm ppm	56 5 2 3 3 2 1165 836 1161				

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inge at the time of en noted. No is recommended at ple at the next o monitor.The is abnormal. All other typical for a new aking in. There is no contamination in esult indicates that alkalinity remaining ondition of the oil is ne time in service.

Contact/Location: NADINE URCIUOLI - VP152741

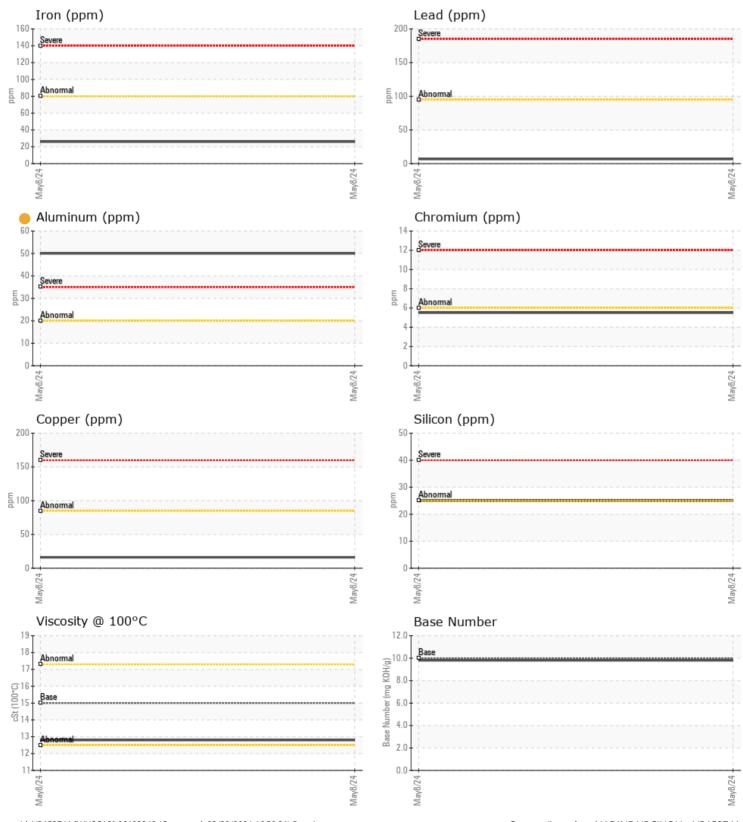
20 May 2024

Report Date:

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GRAPHS



Report Id: VP152741 [WUSCAR] 06182348 (Generated: 05/20/2024 16:58:21) Rev: 1

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