OIL ANALYSIS REPORT

SICKENBERGER 460-237 VOLVO PENTA A1207361 - STARBOARD DIESEL ENGINE

Sample No: VPA058382

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number		VPA058382	 	
Sample Date		20 Nov 2023	 	
Machine Hours		182	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.6	 	
Base Number (BN)	mg KOH/g	9.2	 	
Oxidation (PA)	%	55	 	
CONTAMINATION				
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Water	%	NEG	 	
Soot %	%	0.3	 	
Nitration (PA)	%	47	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	23	 	
Sodium	ppm	4	 	
Potassium	ppm	4	 	
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WEAR METALS				
ron	ppm	20	 	
Copper	ppm	16	 	
Lead	ppm	3	 	
Tin	ppm	3	 	
Aluminum	ppm	3	 	
Chromium	ppm	2	 	
Molybdenum	ppm	59	 	
Nickel	ppm	2	 	
Titanium	ppm	_ _<1	 	
Silver	ppm	0	 	
Manganese	ppm	1	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1170	 	
Magnesium	ppm	748	 	
Zinc	ppm	1084	 	
Phosphorus	ppm	916	 	
Barium	ppm	1	 	
Boron	ppm	1 7	 	

oot: VP153685 Unique No: 10764053 Signed: Don Baldridge Report Date: 01 Dec 2023

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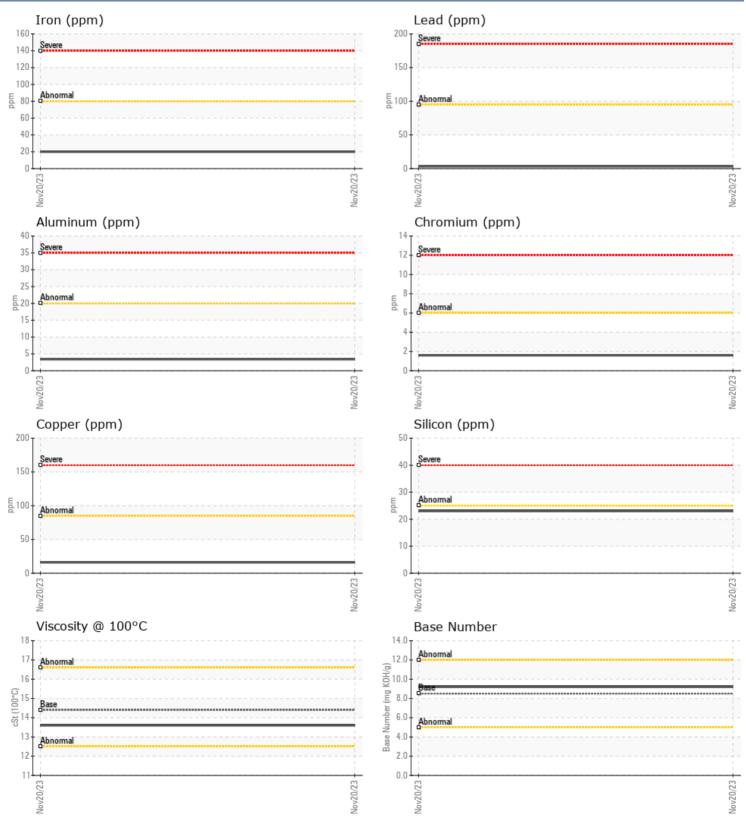
esample at the next service interval monitor.All component wear rates e normal. There is no indication of y contamination in the oil. The BN sult indicates that there is suitable alinity remaining in the oil. The ndition of the oil is acceptable for e time in service.

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GRAPHS



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Contact/Location: Ronda Bolinger - VP153685