OIL ANALYSIS REPORT

VOLVO PENTA A 1 157961 - STARBOARD DIESEL ENGINE SIX

Sample No: VPA060971

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

Sample Number		VPA060971	 	 _
Sample Date		10 Jan 2024	 	 W
Machine Hours		57	 	 45
Oil Hours		0	 	 N
Oil Changed		N/A	 	 U
Sample Status		NORMAL	 	 Co ycł
OIL CONDITION				T:
/isc @ 100°C	cSt	13.2	 	 F:
Base Number (BN)	mg KOH/g	9.7	 	
Oxidation (PA)	%	57	 	 D
CONTAMINATION				F
Water	%	NEG	 	 a
Soot %	%	0.2	 	 r
Nitration (PA)	%	43	 	 a
Sulfation (PA)	%	52	 	 C
Glycol	%	NEG	 	 t
Fuel	%	<1.0	 	
Silicon	ppm	18	 	
Sodium	ppm	3	 	
Potassium	ppm	2	 	
WEAR METALS				
ron	ppm	11	 	
Copper	ppm	1 3	 	
Lead	ppm	5	 	
Tin	ppm	2	 	
Aluminum	ppm	8	 	
Chromium	ppm		 	
Molybdenum	ppm	56	 	
Nickel	ppm	■ <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	1	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1110	 	
Magnesium	ppm	870	 	
Zinc	ppm	1257	 	
Phosphorus	ppm	1076	 	
Barium	ppm	0	 	
Boron	ppm	11	 	 D
				U



N J Clark Inc 1517 Dunning Road NORFOLK, VA JS 23518 Contact: WALTER CLARK /chtfixer@aol.com Γ:

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.

Signed: Don Baldridge Report Date: 19 Jan 2024

VP151520

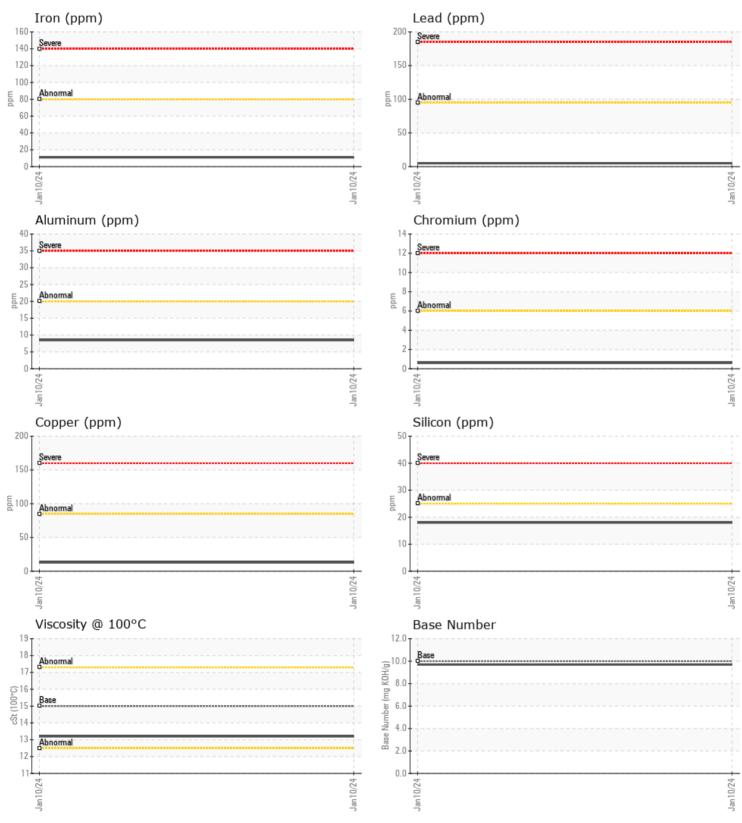
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Contact/Location: WALTER CLARK - VP151520

OIL ANALYSIS REPORT



GRAPHS



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