OIL ANALYSIS REPORT

MCCULLY 23-2779 VOLVO PENTA 2006019938 - PORT DIESEL ENGINE

Sample No: VPA021807

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

Sample Number		VPA021807	VPA012265	
Sample Date		06 Dec 2023	01 Aug 2018	
Machine Hours		1428	671	
Dil Hours		200	0	
Dil Changed		Changed	Changed	
Sample Status		MARGINAL	NORMAL	
OIL CONDITION				
	<u>.</u>		- 1 1 00	
/isc @ 100°C	cSt	▲ 12.4	14.88	
Base Number (BN)	mg KOH/g	8.3		
Oxidation (PA)	%	53	72	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	0.2	0.2	
Nitration (PA)	%	56	66	
Sulfation (PA)	%	53	59	
Glycol	%	NEG	NEG	
uel	%	2.0	<1.0	
Silicon	ppm	7	4	
Sodium	ppm	2	3	
Potassium	ppm	3	5	
WEAR METALS				
ron	ppm	1 0	11	
Copper	ppm	12	7	
_ead	ppm	2	1	
Гin	ppm	1	0	
Aluminum	ppm	2	2	
Chromium	ppm	 <1	<1	
Molybdenum	ppm	24	9	
Nickel	ppm	∎1	 <1	
Fitanium	ppm	■ <1	 <1	
Silver	ppm	0	0	
Vanganese	ppm	□ <1	□ <1	
/anadium	ppm	0	0	
ADDITIVES				
Calcium	ppm	1878	1973	
Magnesium	ppm	 250	142	
Zinc	ppm	950	1106	
Phosphorus	ppm	802	946	
Barium	ppm	15	0	
Boron	ppm	26	122	

VP153685 ue No: 10782819 Angela Borella Signed: Report Date: 20 Dec 2023

standing Marine 3ox 274

ENA, MD 21635 tact: Ronda Bolinger @verizon.net

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and filter change at the time of pling has been noted.All nponent wear rates are normal. re is no indication of any tamination in the oil. The oil osity is lower than normal. The result indicates that there is able alkalinity remaining in the oil. nfirm oil type.

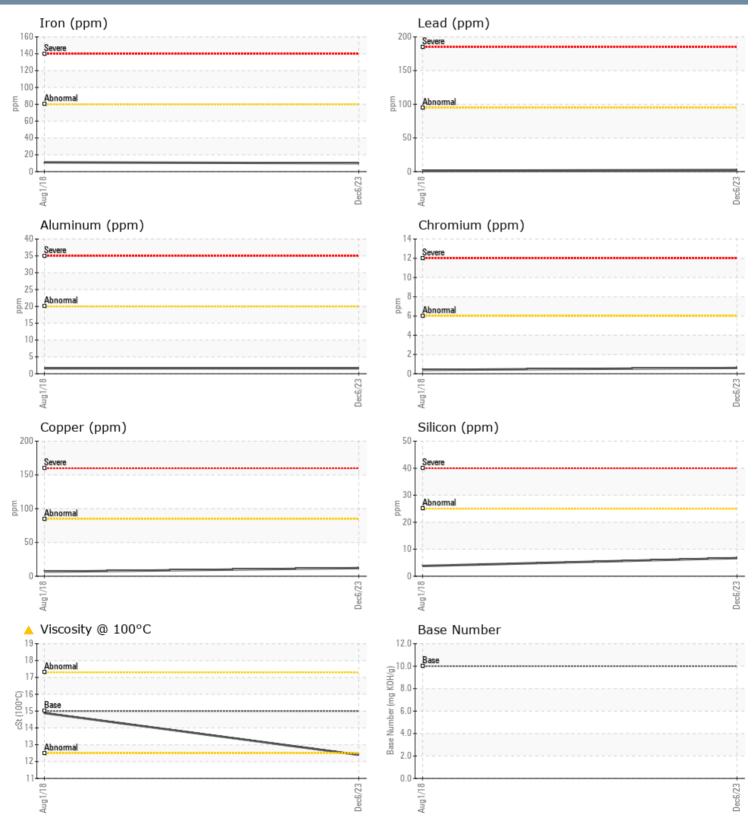


Contact/Location: Ronda Bolinger - VP153685

OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: Ronda Bolinger - VP153685