OIL ANALYSIS REPORT

SCOTT PITASKY PATRICK/502590-5250 VOLVO PENTA 7008512563 - STARBOARD DIESEL ENGINE

Sample No: VPA059206

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

Sample Number		VPA059206	 	 Endor Marine LLC - Coastal Ma
Sample Date		03 Jan 2024	 	 4300 11th Ave. NW
Machine Hours		432	 	 SEATTLE, WA
Dil Hours		0	 	 US 98107
Dil Changed		Changed	 	 Contact: WILLOW YANAREL
Sample Status		ATTENTION	 	
OIL CONDITION				service@coastalmarineengi T: (206)784-3703
/isc @ 100°C	cSt	13.3	 	 F: (206)784-8823
Base Number (BN)		9.8	 	
Dxidation (PA)	%	60	 	 Diagnosis
CONTAMINATION	/0			Oil and filter change at the sampling has been noted. corrective action is recomr
Water	%	NEG	 	 this time. Resample at the
Soot %	%	0.6	 	 service interval to monitor.
Vitration (PA)	%	59	 	 copper level is abnormal. A
Sulfation (PA)	%	57	 	 component wear rates are
Glycol	%	NEG	 	 There is no indication of a
Fuel	%	<1.0	 	 contamination in the oil. T
Silicon	ppm	1 3	 	 result indicates that there i
Sodium	ppm	0	 	 alkalinity remaining in the condition of the oil is acce
Potassium	ppm	2	 	 the time in service.
WEAR METALS				
ron	ppm	28	 	
Copper	ppm	🔺 108	 	
ead	ppm	■ <1	 	
Tin	ppm	 <1	 	
Aluminum	ppm	2	 	
Chromium	ppm	1	 	
Molybdenum	ppm	68	 	
Nickel	ppm	4	 	
Titanium	ppm	 <1	 	
Silver	ppm	1	 	
Manganese	ppm	1	 	
/anadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1145	 	
Magnesium	ppm	1028	 	
Zinc	ppm	1313	 	
hosphorus	ppm	1026	 	
Barium	ppm	8	 	
		1		

Report Id: VP794951 [WUSCAR] 06053401 (Generated: 01/11/2024 10:12:33) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951

Report Date: 09 Jan 2024



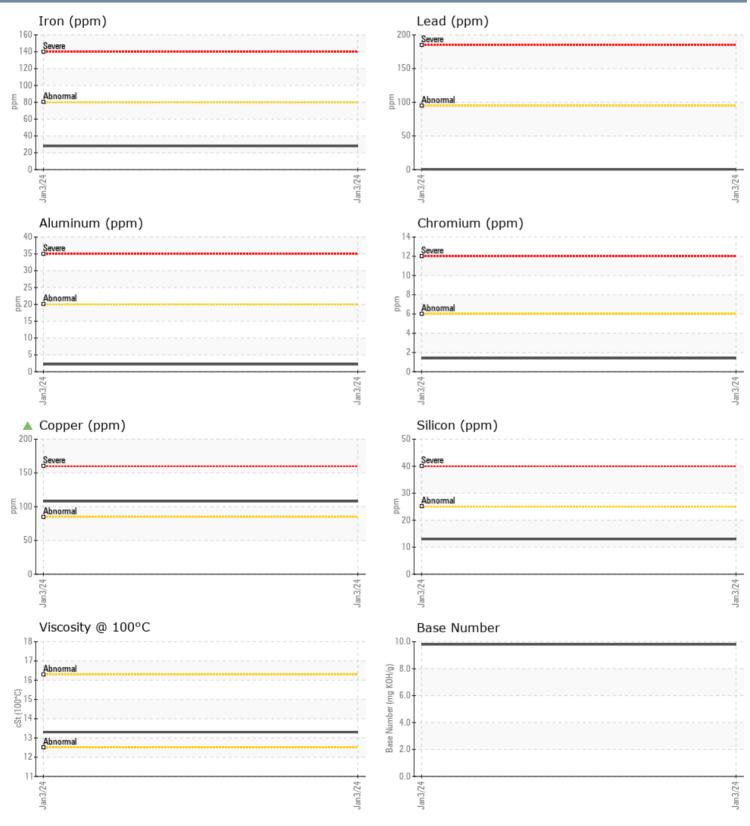
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