OIL ANALYSIS REPORT

MARTIN SNYDER SEATTLE YACHTS VOLVO PENTA A 1074912 - STARBOARD DIESEL ENGINE

Sample No: VPA059027

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

Sample Number		VPA059027	 	
Sample Date		10 Oct 2023	 	
Machine Hours		180	 	
Dil Hours		104	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
/isc @ 100°C	cSt	13.1	 	
Base Number (BN)	mg KOH/g	9.7	 	
Oxidation (PA)	%	52	 	
CONTAMINATION				
	0(
Soot %	%	0.3	 	
Nitration (PA)	%	46	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
-uel	%	<1.0	 	
Silicon	ppm	1 2	 	
Sodium	ppm	2	 	
Potassium	ppm	3	 	
WEAR METALS				
ron	ppm	1 8	 	
Copper	ppm	10	 	
_ead	ppm	5	 	
Гin	ppm	1	 	
Aluminum	ppm	6	 	
Chromium	ppm	1	 	
Molybdenum	ppm	60	 	
Nickel	ppm	2	 	
Titanium	ppm	_ _<1	 	
Silver	ppm	0	 	
Manganese	ppm	_ <1	 	
/anadium	ppm	<1	 	
ADDITIVES				
Calcium	nnm	1079	 	
	ppm	1079		
Magnesium	ppm		 	
Zinc	ppm	1287	 	
Phosphorus	ppm	1072	 	
	ppm	12	 	
Barium Boron	ppm	 <1	 	

lor Marine LLC - Coastal Marine - 152124 00 11th Ave. NW ATTLE, WA 98107 ntact: WILLOW YANARELLA vice@coastalmarineengine.com 206)784-3703 206)784-8823

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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.

Signed:

VP794951 10695910

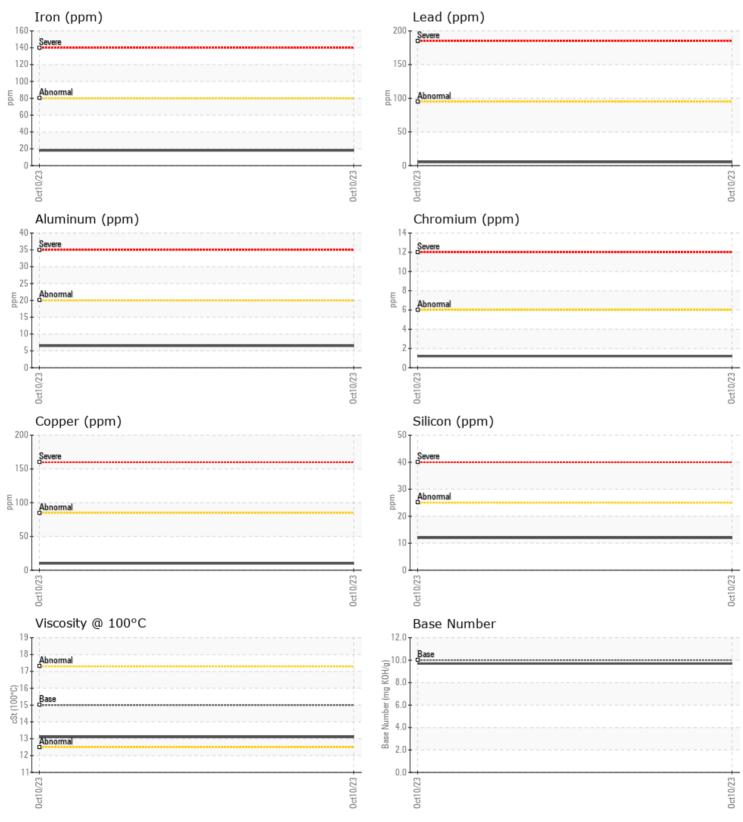
Angela Borella



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP794951 [WUSCAR] 05978615 (Generated: 10/28/2023 18:19:17) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951