OIL ANALYSIS REPORT

DEMAURO VOLVO PENTA A469804 - STARBOARD DIESEL ENGINE

Sample No: VPA051003

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

Several e NIC I		1004054000				
Sample Number		VPA051003				FULL KEEL MARINE SERVICES
Sample Date Machine Hours		21 Mar 2024				314 LEGION AVE
Dil Hours		471				ANNAPOLIS, MD
		0				US 21401
Dil Changed		Changed				Contact: Service Manager
Sample Status		NORMAL				FULLKEELMARINESERIVES@GMAIL.C
OIL CONDITION						T: (410)507-3542 F:
/isc @ 100°C	cSt	13.6				г.
Base Number (BN)	mg KOH/g	10.0				Diagnasia
Oxidation (PA)	%	59				Diagnosis
CONTAMINATION						No corrective action is recommend at this time. Resample at the next service interval to monitor.All
Water	%	NEG				component wear rates are normal.
Soot %	%	0.3				There is no indication of any
Nitration (PA)	%	57				contamination in the oil. The BN
Sulfation (PA)	%	52				result indicates that there is suitab
Glycol	%	NEG				alkalinity remaining in the oil. The
uel	%	<1.0				condition of the oil is suitable for
Silicon	ppm	5				further service.
Sodium	ppm	_ _<1				
Potassium	ppm	2				
WEAR METALS						
ron	ppm	12				
Copper	ppm	2				
ead	ppm	■ <1				
Tin	ppm	■ <1				
Aluminum	ppm	2				
Chromium	ppm	0				
Volybdenum	ppm	51				
Nickel	ppm	 <1				
Titanium	ppm	0				
Silver	ppm	0				
Manganese	ppm	■ <1				
/anadium	ppm	0				
ADDITIVES						
Calcium	ppm	1300				
Magnesium	ppm	863				
Zinc	ppm	1278				
hosphorus	ppm	903				
Barium	ppm	0				
anum						

Report Date: 28 Jun 2024

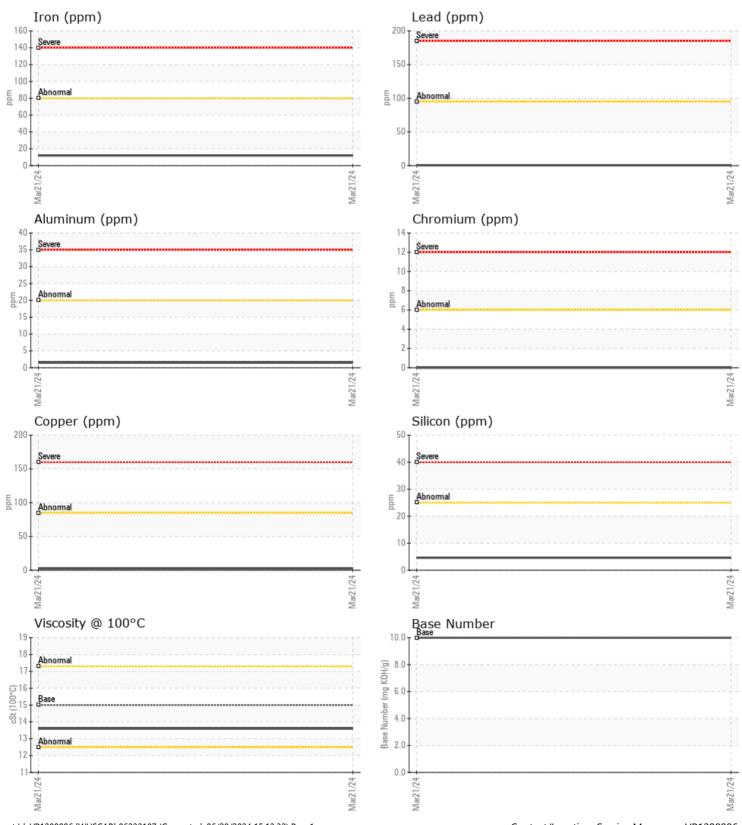
Contact/Location: Service Manager - VP1298996



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP1298996 [WUSCAR] 06222107 (Generated: 06/28/2024 15:12:32) Rev: 1

Contact/Location: Service Manager - VP1298996