OIL ANALYSIS REPORT

JARNICH VOLVO PENTA 2006002302 - STARBOARD DIESEL ENGINE

Sample No: VPA049853

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number		VPA049853	 	
Sample Date		11 Oct 2023	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.5	 	
Base Number (BN)	mg KOH/g	9.1	 	
Oxidation (PA)	%	65	 	
Oxidation (PA)	%	65	 	
	%	65	 	
CONTAMINATION Soot %	%	0	 	
CONTAMINATION Soot % Nitration (PA)	%	0 43	 	
CONTAMINATION Soot % Nitration (PA) Sulfation (PA)	% % %	0 43 55	 	
CONTAMINATION Soot % Nitration (PA) Sulfation (PA) Glycol	% % % %	0 43 55 NEG	 	
CONTAMINATION Soot % Nitration (PA) Sulfation (PA) Glycol Fuel	% % % %	0 43 55 NEG <1.0	 	

WEAR METALS

Iron	ppm	 <1	 	
Copper	ppm	3	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	□ <1	 	
Chromium	ppm	0	 	
Molybdenum	ppm	2	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	0	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	1961	 	
Magnesium	ppm	6	 	
Zinc	ppm	1068	 	
Phosphorus	ppm	867	 	
Barium	ppm	0	 	
Boron	ppm	204	 	

Outstanding Marine

PO Box 274 GALENA, MD US 21635 Contact: Ronda Bolinger rlwb@verizon.net T: F:

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.

 Depot:
 VP153685

 Unique No:
 10698217

 Signed:
 Don Baldridge

 Report Date:
 18 Oct 2023

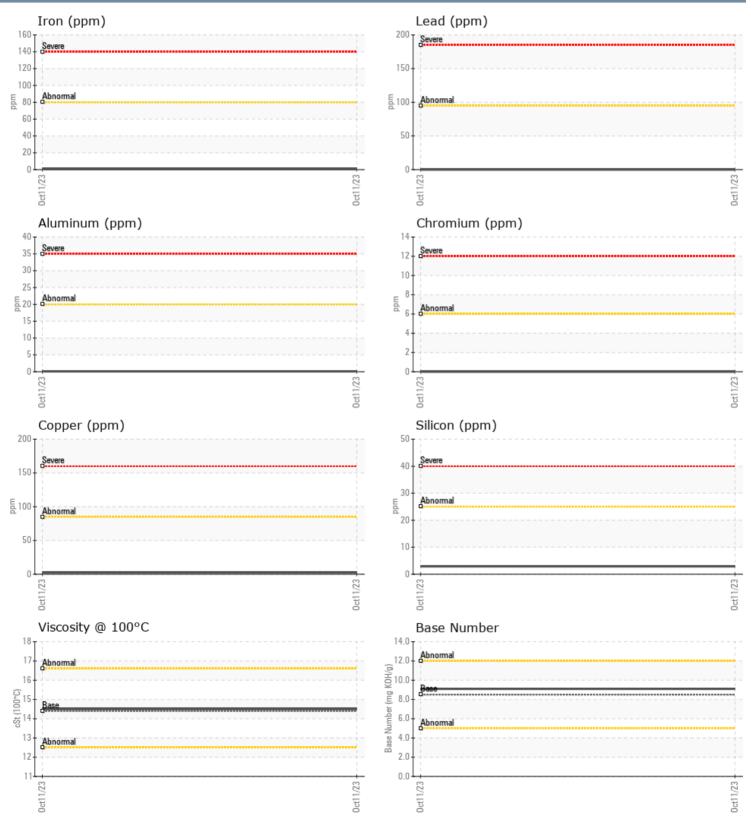
Contact/Location: Ronda Bolinger - VP153685



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP153685 [WUSCAR] 05980922 (Generated: 10/23/2023 01:01:18) Rev: 1

Contact/Location: Ronda Bolinger - VP153685