OIL ANALYSIS REPORT

DISCOVERY VOLVO PENTA 70112014586 - STARBOARD DIESEL ENGINE

Sample No: VPA057376

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number		VPA057376	VPA039432	
Sample Date		13 Jun 2024	18 Jan 2022	
Machine Hours		0	0	
Oil Hours		0 Channad	0	
Oil Changed		Changed		
Sample Status		ABNORMAL	ABNORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	11.3	11.4	
Base Number (BN)	mg KOH/g	9.4	10.4	
Dxidation (PA)	%	53	57	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	0.2	0.1	
Nitration (PA)	%	47	48	
Sulfation (PA)	%	50	53	
Glycol	%	NEG	NEG	
Fuel	%	6 5.5	2 .3	
Silicon	ppm	8	4 31	
odium	ppm	 <1	3	
Potassium	ppm	1	3	
WEAR METALS				
Iron	ppm	4	8	
Copper	ppm	1 4	20	
ead	ppm	0	1	
Гin	ppm	 <1	2	
Aluminum	ppm	1	2	
Chromium	ppm	0	<1	
Molybdenum	ppm	54	52	
Nickel	ppm	 <1	 <1	
Titanium	ppm	0	0	
Silver	ppm	0	<1	
Manganese	ppm	 <1	2	
/anadium	ppm	0	0	
ADDITIVES				
Calcium	ppm	994	1074	
Magnesium	ppm	952	945	
Zinc	ppm	1201	1089	
Phosphorus	ppm	1011	1028	
Barium	ppm	0	0	
Boron	ppm	6	15	
001011				

Outstanding Marine

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

Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



 Unique No:
 11111718

 Signed:
 Don Baldridge

 Report Date:
 09 Jul 2024

VP153685

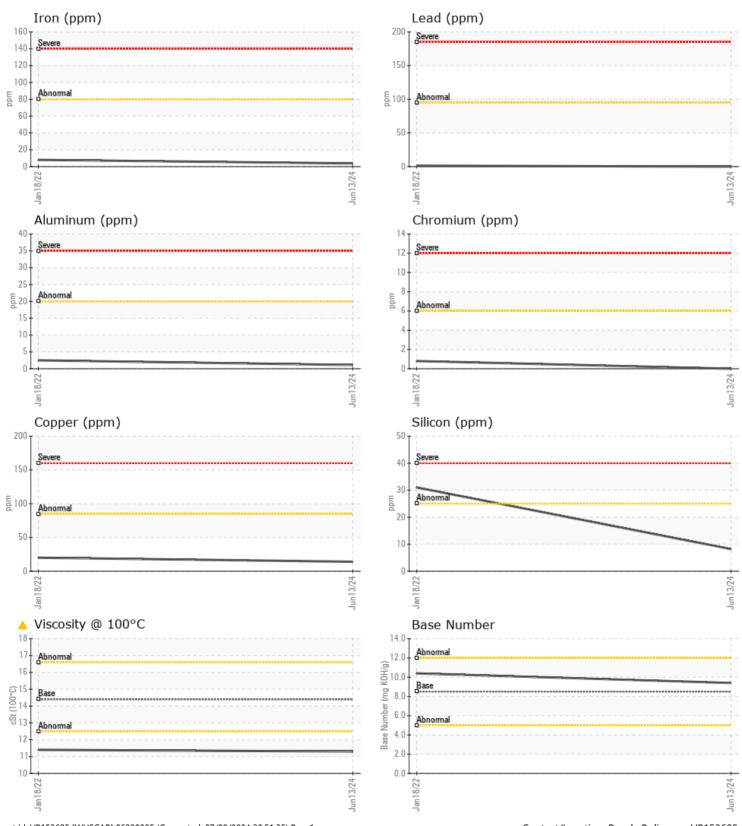
Contact/Location: Ronda Bolinger - VP153685

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OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: Ronda Bolinger - VP153685