



DISCOVERY VOLVO PENTA 70112014593 - PORT DIESEL ENGINE

Sample No: VPA055070

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMAT	TION			
Sample Number		VPA055070	VPA035922	
Sample Date		11 Jun 2024	18 Jan 2022	
Machine Hours		0	0	
Oil Hours		0	0	
Oil Changed		Changed	N/A	
Sample Status		ATTENTION	ABNORMAL	
Sumple Status		ATTENTION	ABINORIVIAE	
OIL CONDITION				
Visc @ 100°C	cSt	11.4	11.1	
Base Number (BN)	mg KOH/g	■ 9.4	□10.4	
Oxidation (PA)	%	53	59	
CONTAMINATION				
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Water	%	NEG	NEG	
Soot %	%	■ 0.2	■ 0.1	
Nitration (PA)	%	46	48	
Sulfation (PA)	%	50	53	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<u>^</u> 2.8	
Silicon	ppm	7	△ 30	
Sodium	ppm	1	3	
Potassium	ppm	2	■3	
WEAR METALS				
Iron	ppm	4	■ 8	
Copper	ppm	10	■33	
Lead	ppm	■0	1	
Tin	ppm	■ <1	2	
Aluminum	ppm	1	2	
Chromium	ppm	■0	1	
Molybdenum	ppm	■ 55	<u></u> 58	
Nickel	ppm	■<1	- <1	
Titanium	ppm	■0	0	
Silver	ppm	■0	<u> </u>	
Manganese	ppm	■ <1	2	
Vanadium	ppm	0	0	
ADDITIVES				
Calcium	ppm	1076	□1068	
Magnesium	ppm	■ 964	977	
Zinc		1256	□ 1138	
Phosphorus	ppm	■ 1256 ■ 1055	1065	
Barium	ppm	0 0	1065	
Boron	ppm	13	8	
DOIOII	ppm	1 3	<u> </u>	

Outstanding Marine

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Diagnosis

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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 no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:VP153685Unique No:11111716Signed:Jonathan HesterReport Date:08 Jul 2024

OIL ANALYSIS REPORT



