



PARDON 50 VOLVO PENTA 7008535398 - STARBOARD DIESEL ENGINE

Sample No: VPA054457

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMAT	TION			
Sample Number		VPA054457	VPA048288	
Sample Nation		05 Mar 2024	27 Nov 2022	
Machine Hours		538	284	
Oil Hours		0	0	
Oil Changed		N/A	N/A	
Sample Status		NORMAL	NORMAL	
Sample Status		NORWAL	NORWAL	
OIL CONDITION				
Visc @ 100°C	cSt	■14.1	□14.6	
Base Number (BN)	mg KOH/g	■9.2	9.5	
Oxidation (PA)	%	60	49	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	1.2	1.9	
Nitration (PA)	%	65	75	
Sulfation (PA)	%	58	59	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	11	2 2	
Sodium	ppm	<u> </u>	3	
Potassium	ppm	0	2	
WEAR METALS				
Iron	ppm	28	4 1	
Copper	ppm	■ 55	92	
Lead	ppm	■0	1	
Tin	ppm	0	<1	
Aluminum	ppm	2	3	
Chromium	ppm	1	2	
Molybdenum	ppm	■ 58	8	
Nickel	ppm	■<1	2	
Titanium	ppm	0	0	
Silver	ppm	■<1	2	
Manganese	ppm	■ <1	1	
Vanadium	ppm	0	0	
ADDITIVES				
Calcium	ppm	1107	□ 1503	
Magnesium	ppm	977	864	
Zinc	ppm	■1280	■1381	
Phosphorus	ррт	■ 1280 ■ 1081	1091	
Barium	ppm	■ 0	□ 0	
Boron	ppm	3	22	
20.011	PPIII			

Marine International Diesels Inc.

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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:VP694356Unique No:10928260Signed:Don BaldridgeReport Date:18 Mar 2024

OIL ANALYSIS REPORT



