

OIL ANALYSIS REPORT

VOLVO PENTA

CROSS SERVICE VOLVO PENTA 7008461361 - STARBOARD DIESEL ENGINE

Sample No: VPA057346
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA057346	VPA041233	---	---
Sample Date	12 Mar 2024	08 Mar 2023	---	---
Machine Hours	570	488	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

Suncoast Diesel Marine Inc.
610 Mount Vernan St
OLDSMAR, FL
US 34677
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	█ 13.8	---	---
Base Number (BN)	mg KOH/g	█ 10.1	█ 10.5	---	---
Oxidation (PA)	%	59	60	---	---

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.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.9	█ 1	---	---
Nitration (PA)	%	60	63	---	---
Sulfation (PA)	%	57	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 15	█ 13	---	---
Sodium	ppm	█ 3	█ 0	---	---
Potassium	ppm	█ <1	█ 2	---	---

WEAR METALS

Iron	ppm	█ 32	█ 29	---	---
Copper	ppm	█ 59	█ 63	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 4	█ 3	---	---
Chromium	ppm	█ 2	█ 2	---	---
Molybdenum	ppm	█ 65	█ 62	---	---
Nickel	ppm	█ 2	█ 2	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 4	█ 5	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1158	█ 1150	---	---
Magnesium	ppm	1050	█ 934	---	---
Zinc	ppm	█ 1322	█ 1254	---	---
Phosphorus	ppm	█ 1093	█ 1034	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ <1	█ <1	---	---

Depot: VP945077
Unique No: 10930177
Signed: Don Baldrige
Report Date: 20 Mar 2024

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GRAPHS

