

OIL ANALYSIS REPORT

VOLVO PENTA

KOHLER 2009435 - STARBOARD GENSET

Sample No: VPA060914

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA060914	---	---	---
Sample Date	15 Mar 2024	---	---	---
Machine Hours	171	---	---	---
Oil Hours	50	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

CAROLINA MARINE DIESEL

PO BOX 24159
HILTON HEAD, SC
US 29925

Contact: KEVIN JACKSON
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OIL CONDITION

Visc @ 100°C	cSt	█ 14.3	---	---	---
Base Number (BN)	mg KOH/g	█ 8.3	---	---	---
Oxidation (PA)	%	70	---	---	---

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	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 6	---	---	---

WEAR METALS

Iron	ppm	█ 5	---	---	---
Copper	ppm	█ < 1	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 3	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 2181	---	---	---
Magnesium	ppm	█ 58	---	---	---
Zinc	ppm	█ 1182	---	---	---
Phosphorus	ppm	█ 968	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 200	---	---	---

Depot: CARHILSC

Unique No: 10930184

Signed: Don Baldrige

Report Date: 20 Mar 2024

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GRAPHS

