

OIL ANALYSIS REPORT

VOLVO PENTA

JIM MILGARD EVAN/502887 NORTHERN LIGHTS 6732-4505 1C - GENSET

Sample No: VPA060456

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA060456	VPA015671	---	---
Sample Date	30 Apr 2024	26 Oct 2017	---	---
Machine Hours	537	400	---	---
Oil Hours	537	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

Endor Marine LLC - Coastal Marine - 152124
4300 11th Ave. NW
SEATTLE, WA
US 98107
Contact: WILLOW YANARELLA
service@coastalmarineengine.com
T: (206)784-3703
F: (206)784-8823

OIL CONDITION

Visc @ 100°C	cSt	12.8	12.76	---	---
Base Number (BN)	mg KOH/g	10.0	---	---	---
Oxidation (PA)	%	60	64	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0	---	---
Nitration (PA)	%	49	58	---	---
Sulfation (PA)	%	53	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	8	6	---	---
Sodium	ppm	5	15	---	---
Potassium	ppm	2	1	---	---

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.

WEAR METALS

Iron	ppm	16	46	---	---
Copper	ppm	4	8	---	---
Lead	ppm	2	<1	---	---
Tin	ppm	<1	6	---	---
Aluminum	ppm	2	5	---	---
Chromium	ppm	1	1	---	---
Molybdenum	ppm	59	59	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1018	1449	---	---
Magnesium	ppm	922	461	---	---
Zinc	ppm	1168	1112	---	---
Phosphorus	ppm	984	850	---	---
Barium	ppm	0	0	---	---
Boron	ppm	6	230	---	---

Depot: VP794951
Unique No: 11015823
Signed: Don Baldrige
Report Date: 08 May 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

