

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ERIK DRAAISMA 7716616 ONAN F130513749 - CENTER GENSET

Sample No: VPA046903

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA046903	VPA010437	---	---
Sample Date	29 Aug 2023	11 Feb 2019	---	---
Machine Hours	822	173	---	---
Oil Hours	0	173	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	ATTENTION	---	---

Pacific Power Group - VP981534

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US 98032

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F:

OIL CONDITION

Visc @ 100°C	cSt	14.1	12.52	---	---
Base Number (BN)	mg KOH/g	9.7	---	---	---
Oxidation (PA)	%	53	52	---	---

CONTAMINATION

Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	42	54	---	---
Sulfation (PA)	%	48	45	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	8	34	---	---
Sodium	ppm	2	11	---	---
Potassium	ppm	0	1	---	---

Diagnosis

No corrective action is recommended at this time. 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	4	13	---	---
Copper	ppm	<1	11	---	---
Lead	ppm	0	1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	56	49	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	17	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1109	1563	---	---
Magnesium	ppm	1022	663	---	---
Zinc	ppm	1298	1031	---	---
Phosphorus	ppm	1045	948	---	---
Barium	ppm	0	9	---	---
Boron	ppm	3	50	---	---

Depot: VP99031103

Unique No: 10631745

Signed: Doug Bogart

Report Date: 05 Sep 2023

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GRAPHS

