

OIL ANALYSIS REPORT



ERIC FRANK VOLVO PENTA 2013903002 - PORT DIESEL ENGINE

Sample No: VPA046234
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA046234	VPA046893	---	---
Sample Date	20 Sep 2023	07 Apr 2022	---	---
Machine Hours	1155	364	---	---
Oil Hours	266	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.5	13.72	---	---
Base Number (BN)	mg KOH/g	8.2	10.8	---	---
Oxidation (PA)	%	60	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 suitable for further service.

CONTAMINATION

Soot %	%	1.3	0.7	---	---
Nitration (PA)	%	73	63	---	---
Sulfation (PA)	%	60	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	4	8	---	---
Sodium	ppm	1	2	---	---
Potassium	ppm	<1	4	---	---

WEAR METALS

Iron	ppm	15	8	---	---
Copper	ppm	13	4	---	---
Lead	ppm	<1	1	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	<1	4	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	65	57	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1176	1138	---	---
Magnesium	ppm	1067	1024	---	---
Zinc	ppm	1335	1249	---	---
Phosphorus	ppm	1060	1100	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	7	---	---

Depot: VPCYMPOM
Unique No: 10661535
Signed: Doug Bogart
Report Date: 26 Sep 2023

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**VOLVO
PENTA**

GRAPHS

