

OIL ANALYSIS REPORT



KEITH REINHARDT 507275 VOLVO PENTA 2004018546 - PORT DIESEL ENGINE

Sample No: VPA059601
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA059601	VPA033133	VPA017006	---
Sample Date	09 Nov 2023	14 Dec 2021	06 Nov 2017	---
Machine Hours	302	0	0	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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 US 11706
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OIL CONDITION

Visc @ 100°C	cSt	14.2	13.5	15.42	---
Base Number (BN)	mg KOH/g	8.6	11.6	---	---
Oxidation (PA)	%	66	62	64	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.2	0	---
Nitration (PA)	%	50	55	58	---
Sulfation (PA)	%	57	55	53	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	4	6	---
Sodium	ppm	<1	2	3	---
Potassium	ppm	7	3	7	---

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	11	4	10	---
Copper	ppm	1	8	3	---
Lead	ppm	0	2	1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	10	5	3	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	11	42	<1	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1894	1511	2104	---
Magnesium	ppm	157	614	10	---
Zinc	ppm	1099	1220	995	---
Phosphorus	ppm	959	1039	955	---
Barium	ppm	0	0	0	---
Boron	ppm	182	67	122	---

Depot: VP543511
Unique No: 10750535
Signed: Sean Felton
Report Date: 21 Nov 2023

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GRAPHS

