

OIL ANALYSIS REPORT



KIRK RUSSEL 502875 VOLVO PENTA 2006020607 - PORT DIESEL ENGINE

Sample No: VPA059345
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA059345	VPA047112	VPA011719	---
Sample Date	21 Mar 2024	25 Apr 2022	26 Aug 2016	---
Machine Hours	1036	1022	706	---
Oil Hours	0	0	20	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.7	14.2	15.00	---
Base Number (BN)	mg KOH/g	9.7	9.4	---	---
Oxidation (PA)	%	56	59	48	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.2	0.1	---
Nitration (PA)	%	44	76	42	---
Sulfation (PA)	%	51	55	47	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	4	4	---
Sodium	ppm	<1	2	3	---
Potassium	ppm	0	4	2	---

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	12	16	5	---
Copper	ppm	<1	3	1	---
Lead	ppm	<1	1	0	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	3	2	3	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	51	11	73	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	1142	1291	1264	---
Magnesium	ppm	970	717	418	---
Zinc	ppm	1238	879	1048	---
Phosphorus	ppm	1054	743	907	---
Barium	ppm	0	0	0	---
Boron	ppm	14	93	383	---

Depot: VP794951
Unique No: 10941494
Signed: Don Baldrige
Report Date: 27 Mar 2024

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GRAPHS

