

OIL ANALYSIS REPORT

VOLVO PENTA

ROBB KENYON DANIEL/502471 VOLVO PENTA D6-435D-F A348098 - PORT DIESEL ENGINE

Sample No: VPA059192

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA059192	VPA043481	VPA011772	VPA003480
Sample Date	20 Oct 2023	12 Oct 2022	10 Aug 2016	09 Sep 2015
Machine Hours	656	0	170	0
Oil Hours	0	73	116	0
Oil Changed	Not Changd	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.7	13.8	14.07
Base Number (BN)	mg KOH/g	9.3	11.1	---	---
Oxidation (PA)	%	61	60	28	52

CONTAMINATION

Soot %	%	0.1	0.3	0.1	0
Nitration (PA)	%	47	52	42	50
Sulfation (PA)	%	59	58	39	42
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	9	10	15
Sodium	ppm	2	0	7	4
Potassium	ppm	0	0	3	6

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	13	5	14	12
Copper	ppm	3	14	11	10
Lead	ppm	0	<1	1	2
Tin	ppm	0	<1	11	0
Aluminum	ppm	3	<1	2	4
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	94	60	43	30
Nickel	ppm	<1	<1	2	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1344	1146	1418	2214
Magnesium	ppm	742	997	776	410
Zinc	ppm	914	1317	1172	1246
Phosphorus	ppm	608	1092	1026	1028
Barium	ppm	0	0	0	0
Boron	ppm	264	4	8	50

Depot: VP794951
Unique No: 10711554
Signed: Sean Felton
Report Date: 27 Oct 2023

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PENTA**

GRAPHS

