

OIL ANALYSIS REPORT

VOLVO PENTA

EMERALD EYES MERCUISER OLOO2194 - PORT GASOLINE ENGINE

Sample No: VPA059491
Oil Type: MERCURY 25W40

SAMPLE INFORMATION

Sample Number	VPA059491	VPA046276	VPA047017	VPA038614
Sample Date	23 Oct 2023	21 Feb 2023	07 Mar 2022	08 Nov 2021
Machine Hours	934	922	0	901
Oil Hours	12	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	16.56	13.2	14.4	16.3
Base Number (BN)	mg KOH/g	9.2	8.3	9.9	---
Oxidation (PA)	%	13	13	13	14

CONTAMINATION

Water	%	---	---	---	0.144
Soot %	%	0	0.1	0	0.1
Nitration (PA)	%	6	7	6	8
Sulfation (PA)	%	10	11	11	11
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	4	4	5
Sodium	ppm	4	3	1	6
Potassium	ppm	0	0	<1	1

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.

WEAR METALS

Iron	ppm	25	20	10	33
Copper	ppm	30	39	13	50
Lead	ppm	0	1	<1	2
Tin	ppm	<1	1	<1	2
Aluminum	ppm	1	2	1	3
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	47	51	52	53
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1988	2290	2401	2274
Magnesium	ppm	23	17	13	15
Zinc	ppm	787	856	988	916
Phosphorus	ppm	712	723	836	763
Barium	ppm	0	0	0	0
Boron	ppm	201	196	232	191

Depot: VP1080862
Unique No: 10714083
Signed: Jonathan Hester
Report Date: 02 Nov 2023

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GRAPHS

