

OIL ANALYSIS REPORT



GENESIS VOLVO PENTA 10132167560 - 3 DIESEL ENGINE

Sample No: VPA036228
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA036228	VPA036186	VPA036038	VPA045098
Sample Date	29 Apr 2024	25 Mar 2024	19 Aug 2023	19 Aug 2023
Machine Hours	2519	2106	1	1
Oil Hours	0	0	1	1
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	NORMAL	ATTENTION	SEVERE	SEVERE

WINDSERVE MARINE
 10 MACNAUGHT ST
 NORTH KINGSTOWN, RI
 US 02852
 Contact: Ryan Linn
 RyanL@windservemarine.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	12.95	12.98
Base Number (BN)	mg KOH/g	9.4	9.7	9.6	9.9
Oxidation (PA)	%	59	61	71	71

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0	0
Nitration (PA)	%	53	58	43	43
Sulfation (PA)	%	53	54	56	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	8	15	15
Sodium	ppm	<1	<1	3	3
Potassium	ppm	2	<1	2	3

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	11	10	2	2
Copper	ppm	2	2	2	2
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	1	0	0
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	57	60	46	45
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	1
Vanadium	ppm	0	0	<1	<1

ADDITIVES

Calcium	ppm	951	1078	1766	1745
Magnesium	ppm	899	971	392	387
Zinc	ppm	1172	1287	1088	1076
Phosphorus	ppm	1115	1103	900	894
Barium	ppm	0	0	0	0
Boron	ppm	19	3	78	76

Depot: VPSENNOR
Unique No: 11015839
Signed: Jonathan Hester
Report Date: 08 May 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

