

OIL ANALYSIS REPORT



VOLVO PENTA 701 1449650 - PORT DIESEL ENGINE

Sample No: VPA036189

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA036189	VPA044931	VPA045134	VPA257721
Sample Date	12 Feb 2024	27 Sep 2023	13 Jul 2022	09 Jun 2020
Machine Hours	735	0	449	115
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	Not Changd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

SUNCOAST DIESEL MARINE

6341 PORTER ROAD, SUITE 6
SARASOTA, FL
US 34240
Contact: SERVICE MANAGER
info@suncoastdmi.com
T: (941)342-0033
F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	▲ 11.8	▲ 11.4	▲ 10.3
Base Number (BN)	mg KOH/g	■ 9.5	■ 9.6	■ 11.7	---
Oxidation (PA)	%	55	57	65	59

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.2	■ 0.6	■ 0.2
Nitration (PA)	%	47	51	72	52
Sulfation (PA)	%	51	53	58	52
Glycol	%	NEG	NEG	NEG	■ 0.0
Fuel	%	<1.0	<1.0	<1.0	▲ 3.7
Silicon	ppm	■ 4	■ 15	■ 7	■ 36
Sodium	ppm	■ 0	■ 4	■ <1	■ 3
Potassium	ppm	■ 1	■ 2	■ 0	■ 11

WEAR METALS

Iron	ppm	■ 2	■ 21	■ 10	■ 14
Copper	ppm	■ 14	■ 37	■ 37	■ 81
Lead	ppm	■ 1	■ <1	■ 1	■ 5
Tin	ppm	■ <1	■ <1	■ 1	■ 4
Aluminum	ppm	■ 1	■ 2	■ 1	■ 3
Chromium	ppm	■ <1	■ <1	■ 1	■ 4
Molybdenum	ppm	■ 61	■ 129	■ 61	■ 10
Nickel	ppm	■ <1	■ 0	■ 0	■ 1
Titanium	ppm	■ <1	■ <1	■ 0	■ <1
Silver	ppm	■ <1	■ 0	■ <1	■ <1
Manganese	ppm	■ <1	■ 3	■ <1	■ 2
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	■ 1024	■ 1555	■ 1103	■ 2507
Magnesium	ppm	■ 961	■ 718	■ 840	■ 24
Zinc	ppm	■ 1235	■ 844	■ 1219	■ 1131
Phosphorus	ppm	■ 964	■ 697	■ 992	■ 1033
Barium	ppm	■ 0	■ <1	■ 4	■ 1
Boron	ppm	■ 1	■ 317	■ 0	■ 36

Diagnosis

No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VP705283
Unique No: 10885080
Signed: Jonathan Hester
Report Date: 20 Feb 2024

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VOLVO PENTA

GRAPHS

