

OIL ANALYSIS REPORT

VOLVO PENTA

HAL KAUFMAN MATTHEW DOW VOLVO PENTA 2006016824 - PORT DIESEL ENGINE

Sample No: VPA048740

Oil Type: VALVOLINE PREMIUM BLUE

SAMPLE INFORMATION

Sample Number	VPA048740	VPA042770	VPA033737	VPA027019
Sample Date	06 Sep 2023	21 Sep 2022	09 Sep 2021	23 Sep 2019
Machine Hours	420	390	373	356
Oil Hours	30	17	17	22
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Mobile Marine Services Inc
01032 Advance Rd South
EAST JORDAN, MI
US 49727
Contact: Duane Kujat
mobilemarine@twin-valley.net
T: Phone
F:

OIL CONDITION

Visc @ 100°C	cSt	14.5	14.5	14.8	14.8
Base Number (BN)	mg KOH/g	9.1	11.0	10.6	---
Oxidation (PA)	%	72	70	65	60

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	64	66	55	53
Sulfation (PA)	%	57	58	54	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	2	3
Sodium	ppm	1	3	7	6
Potassium	ppm	0	0	0	3

WEAR METALS

Iron	ppm	2	4	5	6
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	1	<1	0	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	43	44	44	42
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	4
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1085	1194	1567	1423
Magnesium	ppm	816	741	610	654
Zinc	ppm	879	893	1087	1093
Phosphorus	ppm	665	746	994	894
Barium	ppm	0	0	0	0
Boron	ppm	43	58	65	54

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.

Depot: VP443016
Unique No: 10742640
Signed: Sean Felton
Report Date: 16 Nov 2023

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GRAPHS

