

OIL ANALYSIS REPORT

VOLVO PENTA

PAT LANCASTER MATTHEW DOW VOLVO PENTA 2006035457 - STARBOARD DIESEL ENGINE

Sample No: VPA048746

Oil Type: VALVOLINE PREMIUM BLUE

SAMPLE INFORMATION

Sample Number	VPA048746	VPA036094	VPA026838	VPA017833
Sample Date	05 Sep 2023	13 Sep 2021	08 Sep 2020	04 Sep 2019
Machine Hours	626	598	570	548
Oil Hours	13	28	22	38
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	14.36	14.4	14.6	14.5
Base Number (BN)	mg KOH/g	9.2	10.1	---	---
Oxidation (PA)	%	76	74	71	53

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	71	72	70	63
Sulfation (PA)	%	57	57	57	43
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	2	3	2
Sodium	ppm	2	5	5	7
Potassium	ppm	0	0	<1	5

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	5	5	6	4
Copper	ppm	1	2	3	0
Lead	ppm	0	0	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	0	0	<1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	43	47	46	39
Nickel	ppm	0	0	<1	<1
Titanium	ppm	<1	<1	4	22
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1128	1541	1547	1205
Magnesium	ppm	782	630	679	949
Zinc	ppm	925	1067	1103	1150
Phosphorus	ppm	701	981	1066	939
Barium	ppm	0	0	0	0
Boron	ppm	45	67	61	5

Depot: VP443016
Unique No: 10742670
Signed: Doug Bogart
Report Date: 20 Nov 2023

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GRAPHS

