

OIL ANALYSIS REPORT



LAWSON 520-69 JAY VOLVO PENTA 3940024788 - STARBOARD IPS

Sample No: VPA057270
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA057270	VPA037303	VPA026760	VPA020880
Sample Date	29 Nov 2023	31 Oct 2023	08 Dec 2020	03 Mar 2020
Machine Hours	286	285	90	60
Oil Hours	0	3	30	60
Oil Changed	N/A	Not Changd	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Outstanding Marine
 PO Box 274
 GALENA, MD
 US 21635
 Contact: Ronda Bolinger
 rlwb@verizon.net
 T:
 F:

OIL CONDITION

Visc @ 40°C	cSt	108	108	105	95.4
-------------	-----	------------	-----	-----	------

CONTAMINATION

Water	%	NEG	NEG	NEG	0.055
Silicon	ppm	9	9	7	9
Sodium	ppm	4	3	2	3
Potassium	ppm	0	<1	0	0

WEAR METALS

PQ		16	16	21	18
Iron	ppm	30	24	21	14
Copper	ppm	5	4	4	5
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	<1	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	0	1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	2	1	2	3
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	0	7	3	19
Magnesium	ppm	0	2	162	982
Zinc	ppm	0	13	<1	7
Phosphorus	ppm	1332	1244	1433	1560
Barium	ppm	0	0	0	0
Boron	ppm	310	360	421	542

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 condition of the oil is acceptable for the time in service.

Depot: VP153685
Unique No: 10816465
Signed: Doug Bogart
Report Date: 04 Jan 2024

OIL ANALYSIS REPORT

**VOLVO
PENTA**

GRAPHS

