

OIL ANALYSIS REPORT



RAYNOR VOLVO PENTA 3940015374 - STARBOARD IPS

Sample No: VPA054917
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA054917	VPA028146	VPA029109	VPA018198
Sample Date	03 May 2024	28 Apr 2022	05 Jan 2021	22 Mar 2018
Machine Hours	1017	0	0	698
Oil Hours	1017	0	0	0
Oil Changed	Changed	N/A	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

W J Clark Inc
 4517 Dunning Road
 NORFOLK, VA
 US 23518
 Contact: WALTER CLARK
 ychtfixer@aol.com
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 F:

OIL CONDITION

Visc @ 40°C	cSt	111	109	104	104.0
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CONTAMINATION

Water	%	NEG	NEG	NEG	0.235
Silicon	ppm	9	10	15	30
Sodium	ppm	2	7	10	8
Potassium	ppm	0	1	1	1

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

WEAR METALS

PQ		17	19	20	17
Iron	ppm	10	42	190	218
Copper	ppm	2	5	11	20
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminium	ppm	0	1	3	2
Chromium	ppm	0	<1	2	2
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	0	1	2	2
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	<1	2	3
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	2	2	6	35
Magnesium	ppm	<1	2	3	16
Zinc	ppm	0	24	31	111
Phosphorus	ppm	1401	1444	1397	1274
Barium	ppm	0	0	0	<1
Boron	ppm	313	280	279	214

Depot: VP151520
Unique No: 11043289
Signed: Don Baldrige
Report Date: 23 May 2024

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**VOLVO
PENTA**

GRAPHS

