

OIL ANALYSIS REPORT

VOLVO PENTA

BARRY BARR 1610045 ZF 20024399 - INBOARD - STARBOARD GEARBOX

Sample No: VPA055157

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA055157	VPA048890	---	---
Sample Date	27 Mar 2024	11 Apr 2022	---	---
Machine Hours	0	1407	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

Pacific Power Group - VP981534

7215 S 228th St

Kent, WA

US 98032

Contact: PAT RYAN

pryan@pacificpowergroup.com

T: (253)520-5163

F:

OIL CONDITION

Visc @ 40°C	cSt	█ 96.5	█ 95.4	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	█ 6	█ 7	---	---
Sodium	ppm	█ 15	█ 1	---	---
Potassium	ppm	█ 3	█ 0	---	---

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		█ 20	█ 32	---	---
Iron	ppm	█ 16	█ 40	---	---
Copper	ppm	█ 73	█ 34	---	---
Lead	ppm	█ 10	█ 3	---	---
Tin	ppm	█ 3	█ 1	---	---
Aluminum	ppm	█ 4	█ 3	---	---
Chromium	ppm	█ 1	<1	---	---
Molybdenum	ppm	█ 6	█ 48	---	---
Nickel	ppm	█ 2	1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	█ 2	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 2545	2755	---	---
Magnesium	ppm	█ 20	200	---	---
Zinc	ppm	█ 1021	█ 1054	---	---
Phosphorus	ppm	█ 988	█ 975	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 47	346	---	---

Depot: VP99031103

Unique No: 10982389

Signed: Doug Bogart

Report Date: 19 Apr 2024

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GRAPHS

