

OIL ANALYSIS REPORT



ROB ARNOLD 1610028 VOLVO PENTA 3194002302 - STARBOARD IPS

Sample No: VPA048339
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA048339	VPA047969	VPA047450	VPA028469
Sample Date	13 May 2024	19 Oct 2022	10 May 2022	10 May 2021
Machine Hours	0	755	186	641
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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	108	110	106	109
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	8	8	9	10
Sodium	ppm	0	3	<1	6
Potassium	ppm	2	<1	<1	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		16	7	6	18
Iron	ppm	6	8	11	12
Copper	ppm	2	2	2	8
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	2	0	<1	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	<1	1	<1	0
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	<1	1	<1	<1
Manganese	ppm	<1	2	<1	1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	10	0	40	3
Magnesium	ppm	2	0	5	3
Zinc	ppm	3	0	15	<1
Phosphorus	ppm	1569	1346	1393	1253
Barium	ppm	0	0	0	0
Boron	ppm	333	443	320	291

Depot: VP99031103
Unique No: 11033021
Signed: Sean Felton
Report Date: 20 May 2024

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**VOLVO
PENTA**

GRAPHS

