

OIL ANALYSIS REPORT



RICHMOND 3950006317 - PORT IPS

Sample No: VPA046643

Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA046643	VPA046627	VPA046633	VPA046095
Sample Date	27 Mar 2024	12 Jan 2024	25 Oct 2023	11 Aug 2023
Machine Hours	7846	7322	6723	6253
Oil Hours	500	59	500	596
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VIRGINIA PILOT ASSOCIATION

3329 SHORE DR
VIRGINIA BEACH, VA
US 23451
Contact: RYAN BRYANT
bryant_j@vapilotassn.com
T: (757)692-3439
F:

OIL CONDITION

Visc @ 40°C	cSt	103	104	104	104
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	1	1	1
Sodium	ppm	2	7	8	9
Potassium	ppm	1	0	1	2

WEAR METALS

PQ		13	17	15	12
Iron	ppm	29	18	22	28
Copper	ppm	3	3	4	5
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	<1	<1	0
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	<1	0	2	<1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	<1

ADDITIVES

Calcium	ppm	7	0	49	67
Magnesium	ppm	2	0	7	5
Zinc	ppm	2	0	35	16
Phosphorus	ppm	1341	1350	1377	1280
Barium	ppm	0	0	20	0
Boron	ppm	330	307	342	310

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: VPVIRVIR
Unique No: 10951807
Signed: Sean Felton
Report Date: 02 Apr 2024

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VOLVO PENTA

GRAPHS

