

OIL ANALYSIS REPORT

VOLVO PENTA

TYLER/HR 3950004327 - STARBOARD IPS

Sample No: VPA046628

Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA046628	VPA039544	VPA028074	VPA035538
Sample Date	27 Jun 2023	01 Mar 2023	28 Sep 2022	21 Apr 2022
Machine Hours	8250	7666	7106	6612
Oil Hours	584	560	500	589
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

VIRGINIA PILOT ASSOCIATION

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OIL CONDITION

Visc @ 40°C	cSt	101	99.3	106	105
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CONTAMINATION

Water	%	---	---	▲ 0.261	---
Silicon	ppm	<1	2	6	<1
Sodium	ppm	6	14	15	5
Potassium	ppm	0	2	0	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		12	14	11	22
Iron	ppm	30	65	55	44
Copper	ppm	6	8	7	6
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	3	3	1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	<1	<1	2	<1
Nickel	ppm	<1	1	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	<1	<1
Manganese	ppm	1	1	2	1
Vanadium	ppm	0	0	2	0

ADDITIVES

Calcium	ppm	11	52	28	15
Magnesium	ppm	2	5	0	<1
Zinc	ppm	0	23	0	6
Phosphorus	ppm	1295	1561	1426	1436
Barium	ppm	0	0	0	0
Boron	ppm	298	331	325	322

Depot: VPVIRVIR
Unique No: 10538036
Signed: Don Baldrige
Report Date: 04 Jul 2023

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GRAPHS

