

OIL ANALYSIS REPORT

VOLVO PENTA

DETRICK NORM 351876 VOLVO PENTA 3950009141 - STARBOARD IPS

Sample No: VPA045470
Oil Type: VOLVO 90W

SAMPLE INFORMATION

Sample Number	VPA045470	VPA045476	---	---
Sample Date	07 Jul 2023	07 Sep 2022	---	---
Machine Hours	195	105	---	---
Oil Hours	82	22	---	---
Oil Changed	Not Changd	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	105	229	---	---
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CONTAMINATION

Silicon	ppm	1	3	---	---
Sodium	ppm	2	5	---	---
Potassium	ppm	<1	2	---	---

WEAR METALS

PQ		14	7	---	---
Iron	ppm	12	11	---	---
Copper	ppm	0	2	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	12	19	---	---
Magnesium	ppm	<1	199	---	---
Zinc	ppm	0	5	---	---
Phosphorus	ppm	1414	1348	---	---
Barium	ppm	0	2	---	---
Boron	ppm	320	543	---	---

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T:
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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.

Depot: VP494046
Unique No: 10552267
Signed: Don Baldrige
Report Date: 13 Jul 2023

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GRAPHS

