

OIL ANALYSIS REPORT



VOLVO PENTA 3940022372 - STARBOARD IPS

Sample No: VPA056282

Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA056282	VPA047615	VPA014501	VPA010741
Sample Date	13 Nov 2023	08 May 2023	04 Nov 2022	26 Apr 2022
Machine Hours	649	592	515	450
Oil Hours	0	0	65	60
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	NORMAL	ATTENTION	NORMAL

FDDA FT PIERCE - POWER CENTER

FORT PIERCE, FL

US

Contact: KYLE GRASER

k.graser@kirbycorp.com

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OIL CONDITION

Visc @ 40°C	cSt	█ 106	█ 107	█ 105	█ 107
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CONTAMINATION

Silicon	ppm	█ 12	█ 11	█ 16	█ 11
Sodium	ppm	█ 13	█ 7	█ 10	█ 6
Potassium	ppm	█ <1	█ 1	█ <1	█ 0

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. 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		█ 23	█ 18	█ 26	█ 30
Iron	ppm	▲ 246	█ 131	▲ 250	█ 145
Copper	ppm	█ 11	█ 6	█ 17	█ 12
Lead	ppm	█ 0	█ 0	█ <1	█ 0
Tin	ppm	█ 0	█ <1	█ <1	█ <1
Aluminum	ppm	█ 2	█ 5	█ 3	█ 2
Chromium	ppm	█ 1	█ 1	█ 2	█ 1
Molybdenum	ppm	█ 0	█ <1	█ <1	█ <1
Nickel	ppm	█ 2	█ 2	█ 3	█ 2
Titanium	ppm	█ 0	█ 0	█ 0	█ 0
Silver	ppm	█ 0	█ 0	█ 0	█ <1
Manganese	ppm	█ 3	█ 2	█ 4	█ 3
Vanadium	ppm	█ 0	█ 0	█ 0	█ 0

ADDITIVES

Calcium	ppm	█ 10	█ 15	█ 10	█ 15
Magnesium	ppm	█ 9	█ 17	█ 28	█ 30
Zinc	ppm	█ 24	█ 12	█ 12	█ 10
Phosphorus	ppm	█ 1337	█ 1399	█ 1388	█ 1438
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 286	█ 307	█ 298	█ 299

Depot: VP208659

Unique No: 10740945

Signed: Doug Bogart

Report Date: 16 Nov 2023

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VOLVO PENTA

GRAPHS

