

OIL ANALYSIS REPORT

VOLVO PENTA

MISS DODIE VOLVO PENTA 3194012969 - STARBOARD IPS

Sample No: VPA058273

Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA058273	VPA039431	VPA0027027	VPA01027
Sample Date	09 Nov 2023	01 Oct 2021	16 Nov 2020	01 Oct 2019
Machine Hours	1334	1104	1035	819
Oil Hours	230	69	0	198
Oil Changed	Changed	Changed	N/A	Not Changd
Sample Status	ABNORMAL	NORMAL	ATTENTION	NORMAL

North Harbor Diesel Inc

720 30Th Street
ANACORTES, WA
US 98221
Contact: ROBBIN MURDOCK
robbin@northharbordiesel.com
T: (360)299-1904
F:

OIL CONDITION

Visc @ 40°C	cSt	104	107	104	102
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CONTAMINATION

Water	%	0.081	NEG	NEG	NEG
Silicon	ppm	20	9	8	14
Sodium	ppm	10	9	6	2
Potassium	ppm	2	<1	2	2

WEAR METALS

PQ		27	30	34	23
Iron	ppm	294	134	274	107
Copper	ppm	18	7	13	9
Lead	ppm	0	0	<1	1
Tin	ppm	0	0	0	1
Aluminum	ppm	5	4	2	2
Chromium	ppm	2	<1	1	<1
Molybdenum	ppm	<1	<1	1	0
Nickel	ppm	4	1	2	1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	4	0
Manganese	ppm	4	2	5	3
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	4	4	29	6
Magnesium	ppm	3	2	5	15
Zinc	ppm	17	0	13	9
Phosphorus	ppm	1282	1287	1425	1179
Barium	ppm	<1	0	0	<1
Boron	ppm	287	303	323	246

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. The water content is negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP179089
Unique No: 10750287
Signed: Sean Felton
Report Date: 21 Nov 2023

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GRAPHS

