

OIL ANALYSIS REPORT



RANDY HANSON SWEDE VOLVO DPH-C 3030287143 - CENTER GEARBOX

Sample No: VPA059948

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA059948	VPA056098	VPA043615	VPA257731
Sample Date	07 Dec 2023	07 Mar 2023	02 Feb 2022	09 Nov 2020
Machine Hours	1004	953	898	832
Oil Hours	51	0	66	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	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	107	106	105	105
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	1	1	2
Sodium	ppm	9	3	0	4
Potassium	ppm	1	<1	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		16	6	19	22
Iron	ppm	11	5	8	12
Copper	ppm	1	<1	11	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	<1	4	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	<1	2	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	5	4	45	11
Magnesium	ppm	2	3	38	2
Zinc	ppm	15	6	58	8
Phosphorus	ppm	1162	1316	1423	1337
Barium	ppm	0	0	<1	0
Boron	ppm	274	315	329	258

Depot: VP179089
Unique No: 10796031
Signed: Jonathan Hester
Report Date: 22 Dec 2023

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VOLVO PENTA

GRAPHS

