

OIL ANALYSIS REPORT



502689 VOLVO PENTA 3020297954 - STERNDRIVE - STARBOARD GEARBOX

Sample No: VPA058186
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA058186	VPA031059	VPA027647	VPA027795
Sample Date	09 Feb 2024	20 Feb 2023	24 Feb 2021	25 Feb 2020
Machine Hours	1025	898	672	535
Oil Hours	127	0	137	101
Oil Changed	Changed	Changed	Changed	Changed
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	105	102	102	102
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CONTAMINATION

Water	%	NEG	NEG	NEG	0.146
Silicon	ppm	1	2	2	<1
Sodium	ppm	0	1	<1	5
Potassium	ppm	<1	0	0	2

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		30	10	22	18
Iron	ppm	21	15	19	25
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	<1	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	1	<1	2	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	3	8	2	2
Magnesium	ppm	<1	2	0	<1
Zinc	ppm	0	9	0	9
Phosphorus	ppm	1252	1291	1323	1400
Barium	ppm	10	<1	0	0
Boron	ppm	273	292	282	280

Depot: VP179089
Unique No: 10886153
Signed: Don Baldrige
Report Date: 21 Feb 2024

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VOLVO PENTA

GRAPHS

