

OIL ANALYSIS REPORT



DUNLAP 505801 VOLVO PENTA 3950005029 - STARBOARD IPS

Sample No: VPA058470
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA058470	VPA055290	VPA044443	VPA032861
Sample Date	13 Mar 2024	10 Aug 2023	17 Mar 2023	19 Feb 2021
Machine Hours	509	475	403	207
Oil Hours	509	70	200	0
Oil Changed	Changed	Not Changd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 SAINT CLAIR SHORES, MI
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OIL CONDITION

Visc @ 40°C	cSt	106	105	106	91.7
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	3	4	8
Sodium	ppm	<1	0	2	4
Potassium	ppm	<1	2	4	16

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		15	22	12	20
Iron	ppm	16	29	43	34
Copper	ppm	2	2	5	5
Lead	ppm	0	0	0	2
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	<1	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	0	<1	<1	1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	2	4	4
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	14	16	17	43
Magnesium	ppm	34	36	156	1006
Zinc	ppm	4	9	0	9
Phosphorus	ppm	1392	1387	1293	1589
Barium	ppm	0	2	0	0
Boron	ppm	300	368	337	530

Depot: VP297371
Unique No: 10940874
Signed: Don Baldrige
Report Date: 26 Mar 2024

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GRAPHS

