

OIL ANALYSIS REPORT



MULLHERN 505700 VOLVO PENTA 395002780 - STARBOARD IPS

Sample No: VPA062109
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA062109	VPA044400	VPA029994	VPA032321
Sample Date	19 Mar 2024	02 Mar 2023	10 Jan 2022	10 Mar 2021
Machine Hours	852	771	707	238
Oil Hours	852	64	100	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 24400 Jefferson Ave.
 SAINT CLAIR SHORES, MI
 US 48080
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OIL CONDITION

Visc @ 40°C	cSt	109	108	107	103

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	1	2	5
Sodium	ppm	<1	<1	1	1
Potassium	ppm	<1	<1	11	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		13	10	17	20
Iron	ppm	17	10	20	25
Copper	ppm	<1	1	2	5
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	0	<1	3	0
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	2	3
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	7	10	11	9
Magnesium	ppm	7	9	69	175
Zinc	ppm	2	8	0	0
Phosphorus	ppm	1446	1297	1492	1434
Barium	ppm	0	0	0	0
Boron	ppm	306	288	346	363

Depot: VP297371
Unique No: 10940873
Signed: Don Baldrige
Report Date: 26 Mar 2024

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GRAPHS

