

# OIL ANALYSIS REPORT

# VOLVO PENTA

## CAMPBELL - ARROW ARROW VOLVO PENTA 3940019413 - STARBOARD IPS

Sample No: VPA046085

Oil Type: VOLVO API GL-5 SAE 75W90

### SAMPLE INFORMATION

Sample Number	VPA046085	VPA042239	VPA034478	VPA030153
Sample Date	04 Oct 2023	04 Oct 2022	22 Oct 2021	08 Oct 2020
Machine Hours	527	494	452	393
Oil Hours	33	42	59	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

McMichael Yacht Yard No1 Inc

700 Rushmore Ave

MAMARONECK, NY

US 10543

Contact: Patti Hornidge

rushmore@mcmyacht.com

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### OIL CONDITION

Visc @ 40°C	cSt	110	110	107	106
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### CONTAMINATION

Silicon	ppm	10	8	11	25
Sodium	ppm	0	<1	2	12
Potassium	ppm	0	0	10	3

### WEAR METALS

PQ		7	17	20	29
Iron	ppm	51	42	42	165
Copper	ppm	4	3	3	10
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	<1	3
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	1	<1	<1	3
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	2	<1	2
Vanadium	ppm	0	0	0	0

### ADDITIVES

Calcium	ppm	27	0	10	15
Magnesium	ppm	8	6	10	2
Zinc	ppm	7	4	11	23
Phosphorus	ppm	1456	1335	1335	1368
Barium	ppm	0	2	0	0
Boron	ppm	308	323	295	284

### 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.

Depot: VP153367

Unique No: 10713333

Signed: Don Baldrige

Report Date: 30 Oct 2023

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## GRAPHS

