

OIL ANALYSIS REPORT



CAMPBELL - ARROW ARROW VOLVO PENTA 3940019414 - PORT IPS

Sample No: VPA060276

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA060276	VPA042244	VPA034475	VPA030152
Sample Date	04 Oct 2023	04 Oct 2022	22 Oct 2021	08 Oct 2020
Machine Hours	523	490	448	389
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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 F:

OIL CONDITION

Visc @ 40°C	cSt	107	109	108	105
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CONTAMINATION

Silicon	ppm	13	9	17	17
Sodium	ppm	7	4	3	2
Potassium	ppm	0	0	4	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		19	13	19	19
Iron	ppm	41	36	28	29
Copper	ppm	6	4	3	5
Lead	ppm	0	0	0	1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	1	0	0
Nickel	ppm	1	<1	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	2	0	0
Manganese	ppm	2	2	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	13	11	3	8
Magnesium	ppm	7	8	1	<1
Zinc	ppm	14	11	5	5
Phosphorus	ppm	1485	1321	1348	1348
Barium	ppm	0	2	0	0
Boron	ppm	300	316	299	295

Depot: VP153367
Unique No: 10713334
Signed: Don Baldrige
Report Date: 30 Oct 2023

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GRAPHS

