

# OIL ANALYSIS REPORT

# VOLVO PENTA

## NEWT MARINE MIKE ZF 20360342 - INBOARD - STARBOARD GEARBOX

Sample No: VPA051778

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA051778	VPA05798341	VPA038811	VPA026924
Sample Date	29 Aug 2023	08 Mar 2023	13 Jul 2022	25 Oct 2021
Machine Hours	4811	3812	2939	1897
Oil Hours	980	873	1052	969
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

### NEWT MARINE

5 JONES ST  
DUBUQUE, IA  
US 52001  
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T:  
F:

### OIL CONDITION

Visc @ 40°C	cSt	68.7	69.2	67.4	67.9
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### CONTAMINATION

Silicon	ppm	5	5	6	9
Sodium	ppm	1	2	2	2
Potassium	ppm	0	0	0	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		15	10	19	16
Iron	ppm	12	10	14	14
Copper	ppm	12	10	15	19
Lead	ppm	<1	0	2	4
Tin	ppm	<1	0	<1	0
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	64	61	62	71
Nickel	ppm	<1	<1	2	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	<1	0	0	0

### ADDITIVES

Calcium	ppm	1086	1047	1106	1132
Magnesium	ppm	1011	924	909	1057
Zinc	ppm	1271	1234	1168	1203
Phosphorus	ppm	1076	1053	1042	1139
Barium	ppm	0	0	0	0
Boron	ppm	<1	4	12	10

Depot: VP99298099  
Unique No: 10673768  
Signed: Don Baldrige  
Report Date: 04 Oct 2023

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## GRAPHS

