

OIL ANALYSIS REPORT



NEWT MARINE RAY ZF 20361032 - INBOARD - PORT GEARBOX

Sample No: VPA051857
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA051857	VPA051774	VPA038815	VPA026794
Sample Date	01 Mar 2024	29 Aug 2023	13 Jul 2022	25 Oct 2021
Machine Hours	5832	4821	2949	1907
Oil Hours	1011	980	1042	981
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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

OIL CONDITION

Visc @ 40°C	cSt	72.2	70.4	70.3	70.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	5	5	9
Sodium	ppm	2	1	2	2
Potassium	ppm	<1	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		19	16	25	19
Iron	ppm	10	15	14	15
Copper	ppm	12	15	16	24
Lead	ppm	1	3	5	10
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	57	62	62	70
Nickel	ppm	<1	<1	1	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1003	1055	1066	1085
Magnesium	ppm	928	995	906	1029
Zinc	ppm	1247	1243	1181	1179
Phosphorus	ppm	1095	1056	1045	1116
Barium	ppm	0	0	0	0
Boron	ppm	<1	3	8	10

Depot: VP99298099
Unique No: 10916701
Signed: Don Baldrige
Report Date: 12 Mar 2024

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**VOLVO
PENTA**

GRAPHS

