

OIL ANALYSIS REPORT



HOFFMANN WATERSPORTS BC-02 VOLVO PENTA A421672 - CENTER DIESEL ENGINE

Sample No: VPA036139
Oil Type: PROVIDENCE SYNTHETIC 15W40

SAMPLE INFORMATION

Sample Number	VPA036139	VPA035543	VPA035569	VPA035571
Sample Date	27 Apr 2024	17 Mar 2024	27 Jul 2023	23 Jul 2023
Machine Hours	4821	4726	4316	4301
Oil Hours	95	96	15	80
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

Marco Island Ski & Water Sport
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 MARCO ISLAND, FL
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 Contact: Bradley Cotten
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OIL CONDITION

Visc @ 100°C	cSt	14.7	14.1	15.0	15.0
Base Number (BN)	mg KOH/g	10.0	10.0	12.5	9.4
Oxidation (PA)	%	57	59	57	55

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	48	53	60	47
Sulfation (PA)	%	50	50	45	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	4	3
Sodium	ppm	1	1	2	1
Potassium	ppm	<1	4	▲ 48	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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	2	3	4	3
Copper	ppm	6	6	4	3
Lead	ppm	<1	2	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	2	4	3
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	61	56	54	56
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1116	1134	1062	1053
Magnesium	ppm	1000	964	854	877
Zinc	ppm	1288	1288	1148	1156
Phosphorus	ppm	1124	1086	941	949
Barium	ppm	0	0	0	0
Boron	ppm	1	3	16	1

Depot: VP153258
Unique No: 11018396
Signed: Sean Felton
Report Date: 10 May 2024

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**VOLVO
PENTA**

GRAPHS

