

OIL ANALYSIS REPORT



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

Sample No: VPA035543
Oil Type: PROVIDENCE SYNTHETIC 15W40

SAMPLE INFORMATION

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

Marco Island Ski & Water Sport
 1392
 MARCO ISLAND, FL
 US 34146
 Contact: Bradley Cotten
 bradc@marcoislandwatersports.com
 T:
 F:

OIL CONDITION

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

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	53	60	47	---
Sulfation (PA)	%	50	45	49	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	4	3	---
Sodium	ppm	1	2	1	---
Potassium	ppm	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 acceptable for the time in service.

WEAR METALS

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

ADDITIVES

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

Depot: VP153258
Unique No: 10943204
Signed: Don Baldrige
Report Date: 28 Mar 2024

OIL ANALYSIS REPORT



GRAPHS

