

OIL ANALYSIS REPORT



BOOMERANG 43 4007 74003290 - PORT DIESEL ENGINE

Sample No: VPA052373
Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA052373	VPA046295	VPA025297	VPA024400
Sample Date	03 Jan 2024	09 Jan 2023	13 Jan 2022	20 Jan 2019
Machine Hours	564	511	446	0
Oil Hours	50	64	118	0
Oil Changed	Changed	Changed	Not Changd	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

The Talaria Company
 202 Banks St., One Little Harbor Landing
 OXFORD, MD
 US 21654
 Contact: TRACY PELLERIN
 tpellerin@hinckleyyachts.com
 T: (410)770-4899
 F: x:

OIL CONDITION

Visc @ 100°C	cSt	14.2	14.5	14.9	14.42
Base Number (BN)	mg KOH/g	8.4	8.1	8.4	---
Oxidation (PA)	%	67	68	76	71

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.6	1.1	0.5
Nitration (PA)	%	66	66	84	78
Sulfation (PA)	%	57	60	67	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	9	16
Sodium	ppm	3	3	4	5
Potassium	ppm	3	8	4	30

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	16	29	52	50
Copper	ppm	13	21	44	47
Lead	ppm	0	0	<1	2
Tin	ppm	<1	2	<1	0
Aluminum	ppm	5	10	19	15
Chromium	ppm	<1	2	4	2
Molybdenum	ppm	32	8	24	45
Nickel	ppm	<1	<1	0	2
Titanium	ppm	<1	<1	<1	6
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1588	2147	2136	1444
Magnesium	ppm	341	55	148	686
Zinc	ppm	1182	1146	1193	1162
Phosphorus	ppm	980	966	921	969
Barium	ppm	0	<1	0	<1
Boron	ppm	66	158	82	30

Depot: VP592286
Unique No: 10884395
Signed: Sean Felton
Report Date: 19 Feb 2024

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VOLVO PENTA

GRAPHS

