

OIL ANALYSIS REPORT

VOLVO PENTA

DARK & STORMY PB 2529052 - PORT DIESEL ENGINE

Sample No: VPA058931
Oil Type: YANMAR 5W40

SAMPLE INFORMATION

Sample Number	VPA058931	VPA041362	VPA031333	VPA032736
Sample Date	05 Dec 2023	05 Jan 2023	02 Nov 2021	08 Jan 2021
Machine Hours	655	591	554	0
Oil Hours	64	0	0	0
Oil Changed	Changed	N/A	Not Changd	N/A
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

The Talaria Company
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US 21654
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.5	14.3	▲ 18.6
Base Number (BN)	mg KOH/g	8.0	8.2	---	---
Oxidation (PA)	%	52	52	55	59

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	0.7	1.3	2.1
Nitration (PA)	%	65	65	76	89
Sulfation (PA)	%	53	53	58	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	6	8
Sodium	ppm	1	3	4	4
Potassium	ppm	5	3	5	11

WEAR METALS

Iron	ppm	16	18	31	39
Copper	ppm	35	30	47	49
Lead	ppm	0	1	2	3
Tin	ppm	0	<1	1	2
Aluminum	ppm	4	6	9	3
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	22	21	19	<1
Nickel	ppm	<1	2	5	▲ 6
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	<1	<1	1

ADDITIVES

Calcium	ppm	1376	1487	1617	1646
Magnesium	ppm	497	533	600	850
Zinc	ppm	1059	1083	1098	820
Phosphorus	ppm	917	929	992	748
Barium	ppm	3	0	0	0
Boron	ppm	117	110	106	59

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.

Depot: VP592286
Unique No: 10778824
Signed: Doug Bogart
Report Date: 11 Dec 2023

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GRAPHS

