

OIL ANALYSIS REPORT

**VOLVO
PENTA**

JULIE ANNE PB 2632 - STARBOARD DIESEL ENGINE

Sample No: VPA060604

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA060604	VPA046269	VPA041310	VPA025331
Sample Date	30 Nov 2023	10 Jan 2023	05 Jan 2023	12 Jan 2022
Machine Hours	330	250	250	188
Oil Hours	0	0	59	59
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

The Talaria Company

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OIL CONDITION

Visc @ 100°C	cSt	14.3	14.7	14.7	13.4
Base Number (BN)	mg KOH/g	6.3	8.9	8.5	9.6
Oxidation (PA)	%	67	60	70	75

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.1	0.4	0.3
Nitration (PA)	%	60	46	64	65
Sulfation (PA)	%	57	53	59	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	6	14	24
Sodium	ppm	0	2	4	2
Potassium	ppm	8	4	7	5

WEAR METALS

Iron	ppm	47	10	68	68
Copper	ppm	30	7	37	29
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	1
Aluminum	ppm	9	4	16	29
Chromium	ppm	2	<1	4	3
Molybdenum	ppm	1	9	6	13
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	2101	2261	2367	2210
Magnesium	ppm	14	24	24	67
Zinc	ppm	1102	1029	1169	1215
Phosphorus	ppm	929	795	998	947
Barium	ppm	3	0	0	0
Boron	ppm	170	186	175	213

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: 10778834
Signed: Don Baldrige
Report Date: 11 Dec 2023

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GRAPHS

