

OIL ANALYSIS REPORT



STOURAKAS BUD YANMAR 57245 - PORT DIESEL ENGINE

Sample No: VPA021887
Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA021887	VPA041067	VPA040388	VPA026536
Sample Date	05 Dec 2023	06 Oct 2022	03 Dec 2021	19 Nov 2020
Machine Hours	1712	1611	1498	1403
Oil Hours	0	0	95	57
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.6	13.7	14.1
Base Number (BN)	mg KOH/g	8.2	9.3	10.4	---
Oxidation (PA)	%	69	65	64	61

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.5	0.5	0.4
Nitration (PA)	%	69	82	59	54
Sulfation (PA)	%	57	55	54	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	3	3
Sodium	ppm	5	2	2	2
Potassium	ppm	96	2	<1	<1

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	37	21	23	11
Copper	ppm	39	14	9	6
Lead	ppm	0	<1	1	<1
Tin	ppm	2	<1	<1	<1
Aluminum	ppm	31	4	4	4
Chromium	ppm	4	1	1	1
Molybdenum	ppm	57	88	61	65
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	<1
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1206	1995	1149	1204
Magnesium	ppm	870	288	1029	999
Zinc	ppm	1201	1277	1337	1358
Phosphorus	ppm	941	1091	1140	1163
Barium	ppm	0	0	0	0
Boron	ppm	10	53	7	13

Depot: VP153811
Unique No: 10777217
Signed: Angela Borella
Report Date: 08 Dec 2023

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VOLVO PENTA

GRAPHS

