

OIL ANALYSIS REPORT



@VENTURE EH A716087 - PORT DIESEL ENGINE

Sample No: VPA060634

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA060634	VPA044208	VPA025335	VPA033135
Sample Date	28 Nov 2023	14 Dec 2022	04 Jan 2022	04 Jan 2021
Machine Hours	633	573	530	0
Oil Hours	68	0	104	0
Oil Changed	Changed	Changed	Not Changd	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

The Talaria Company

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OIL CONDITION

Visc @ 100°C	cSt	13.9	14.5	14.7	13.7
Base Number (BN)	mg KOH/g	9.4	8.8	8.7	---
Oxidation (PA)	%	62	64	67	57

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	51	48	53	53
Sulfation (PA)	%	52	56	57	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	3	3
Sodium	ppm	<1	3	4	2
Potassium	ppm	<1	6	8	5

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	8	10	11
Copper	ppm	2	2	4	7
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	<1	1	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	5	3	19
Nickel	ppm	1	<1	2	3
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1496	2165	2102	2096
Magnesium	ppm	494	46	28	41
Zinc	ppm	1231	1115	1067	1020
Phosphorus	ppm	1031	982	955	902
Barium	ppm	0	0	0	0
Boron	ppm	43	184	177	125

Depot: VP592286
Unique No: 10830430
Signed: Don Baldrige
Report Date: 15 Jan 2024

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VOLVO PENTA

GRAPHS

