

OIL ANALYSIS REPORT



WALKABOUT A268214 - STARBOARD DIESEL ENGINE

Sample No: VPA058444
Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA058444	VPA044164	VPA028791	VPA024985
Sample Date	04 Dec 2023	19 Dec 2022	17 Nov 2021	31 Jan 2019
Machine Hours	628	601	571	0
Oil Hours	27	36	0	0
Oil Changed	Changed	Changed	Not Changd	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.1	14.2	14.2	14.7
Base Number (BN)	mg KOH/g	8.2	8.7	---	---
Oxidation (PA)	%	68	64	68	64

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.5
Nitration (PA)	%	48	49	51	66
Sulfation (PA)	%	55	56	58	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	4	3	7
Sodium	ppm	0	2	4	2
Potassium	ppm	5	6	8	0

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	2	10	8	21
Copper	ppm	2	1	1	4
Lead	ppm	<1	<1	<1	2
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	1	1	<1	1
Chromium	ppm	0	<1	<1	1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	<1	1	2
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	2111	2248	2226	2248
Magnesium	ppm	14	13	16	16
Zinc	ppm	1131	1114	1111	1141
Phosphorus	ppm	921	977	1011	971
Barium	ppm	0	0	0	<1
Boron	ppm	183	198	212	146

Depot: VP592286
Unique No: 10830425
Signed: Don Baldrige
Report Date: 15 Jan 2024

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**VOLVO
PENTA**

GRAPHS

