

OIL ANALYSIS REPORT



E070062061 - STARBOARD GENSET

Sample No: VPA058941

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA058941	VPA056998	VPA033204	---
Sample Date	25 Mar 2024	20 Jul 2023	06 Apr 2022	---
Machine Hours	0	2872	2650	---
Oil Hours	0	0	100	---
Oil Changed	Not Chngd	N/A	N/A	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---

ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2
 NAPLES, FL
 US 34104
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	█ 13.3	█ 13.3	---
Base Number (BN)	mg KOH/g	█ 6.4	█ 6.1	█ 7.2	---
Oxidation (PA)	%	177	170	191	---

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.1	█ 0.1	█ 0.1	---
Nitration (PA)	%	60	66	61	---
Sulfation (PA)	%	102	100	111	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 4	█ 3	█ 3	---
Sodium	ppm	█ 2	█ 1	█ <1	---
Potassium	ppm	█ 3	█ 0	█ 0	---

WEAR METALS

Iron	ppm	█ 2	█ 5	█ 4	---
Copper	ppm	█ <1	█ 0	█ <1	---
Lead	ppm	█ <1	█ 0	█ 0	---
Tin	ppm	█ <1	█ <1	█ <1	---
Aluminum	ppm	█ 2	█ 2	█ 2	---
Chromium	ppm	█ 0	█ <1	█ <1	---
Molybdenum	ppm	█ 45	█ 47	█ 44	---
Nickel	ppm	█ <1	█ 0	█ 0	---
Titanium	ppm	0	0	0	---
Silver	ppm	█ 0	█ 0	█ 0	---
Manganese	ppm	█ <1	█ 0	█ 0	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1005	█ 1059	█ 990	---
Magnesium	ppm	█ 890	█ 939	█ 845	---
Zinc	ppm	█ 1252	█ 1367	█ 1107	---
Phosphorus	ppm	█ 1086	█ 1091	█ 941	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 137	█ 132	█ 130	---

Depot: VPADVNAP
 Unique No: 10943206
 Signed: Don Baldrige
 Report Date: 28 Mar 2024

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VOLVO PENTA

GRAPHS

