

OIL ANALYSIS REPORT



SUGAR JRM M140130342 - CENTER DIESEL ENGINE

Sample No: VPA047833

Oil Type: SHELL 15W40

SAMPLE INFORMATION

Sample Number	VPA047833	VPA032790	---	---
Sample Date	20 Nov 2023	19 Oct 2020	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	14.2	14.4	---	---
Base Number (BN)	mg KOH/g	8.1	---	---	---
Oxidation (PA)	%	65	56	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0	0.2	---	---
Nitration (PA)	%	44	38	---	---
Sulfation (PA)	%	54	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	14	13	---	---
Sodium	ppm	1	7	---	---
Potassium	ppm	5	13	---	---

WEAR METALS

Iron	ppm	7	22	---	---
Copper	ppm	0	<1	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	3	---	---
Chromium	ppm	0	2	---	---
Molybdenum	ppm	2	59	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	2189	1808	---	---
Magnesium	ppm	12	526	---	---
Zinc	ppm	1301	1086	---	---
Phosphorus	ppm	1033	991	---	---
Barium	ppm	0	1	---	---
Boron	ppm	201	3	---	---

The Talaria Company

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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: 10767897
Signed: Sean Felton
Report Date: 05 Dec 2023

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**VOLVO
PENTA**

GRAPHS

