

OIL ANALYSIS REPORT

**VOLVO
PENTA**

RIVERIA 43 530717 CUMMINS L190693006 - GENSET

Sample No: VPA058011

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA058011	---	---	---
Sample Date	10 Nov 2023	---	---	---
Machine Hours	382	---	---	---
Oil Hours	40	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	---	---	---
Base Number (BN)	mg KOH/g	█ 9.4	---	---	---
Oxidation (PA)	%	67	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	55	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 1	---	---	---

WEAR METALS

Iron	ppm	█ 2	---	---	---
Copper	ppm	█ 0	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 46	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1157	---	---	---
Magnesium	ppm	█ 871	---	---	---
Zinc	ppm	█ 998	---	---	---
Phosphorus	ppm	█ 825	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 38	---	---	---

Marine International Diesels Inc.

3600 HACIENDA BLVD UNIT G
DAVIE, FL
US 33314

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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 acceptable for the time in service.

Depot: VP694356

Unique No: 10741292

Signed: Don Baldrige

Report Date: 16 Nov 2023

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GRAPHS

