

OIL ANALYSIS REPORT



FREE TRADE 255 CUMMINS/ONAN K180453944 - GENSET

Sample No: VPA062996
Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA062996	VPA041428	---	---
Sample Date	28 May 2024	15 Jun 2023	---	---
Machine Hours	0	888	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

Marine International Diesels Inc.
 3600 HACIENDA BLVD UNIT G
 DAVIE, FL
 US 33314
 Contact: ASHANTI BURKE
 aburke@midiflorida.com
 T: (954)761-1086
 F: (954)761-1186

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 12.7	---	---
Base Number (BN)	mg KOH/g	█ 9.5	█ 9.4	---	---
Oxidation (PA)	%	54	49	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	42	45	---	---
Sulfation (PA)	%	48	45	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 2	█ 4	---	---
Sodium	ppm	█ 2	█ 3	---	---
Potassium	ppm	█ 1	█ 2	---	---

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.

WEAR METALS

Iron	ppm	█ 0	█ 3	---	---
Copper	ppm	█ 0	█ <1	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 2	█ <1	---	---
Chromium	ppm	█ <1	█ 0	---	---
Molybdenum	ppm	█ 58	█ 62	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ 0	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1051	█ 1265	---	---
Magnesium	ppm	█ 932	█ 1057	---	---
Zinc	ppm	█ 1246	█ 1427	---	---
Phosphorus	ppm	█ 927	█ 1141	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 3	█ 0	---	---

Depot: VP694356
Unique No: 11099186
Signed: Don Baldrige
Report Date: 27 Jun 2024

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**VOLVO
PENTA**

GRAPHS

