

OIL ANALYSIS REPORT

**VOLVO
PENTA**

MULLIGAN CUMMINS G170218074 - GENSET

Sample No: VPA036625

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMATION

Sample Number	VPA036625	---	---	---
Sample Date	09 Aug 2023	---	---	---
Machine Hours	381	---	---	---
Oil Hours	51	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

Cogswell Marine & Motorsports, Inc

865 Stella Street
CHULA VISTA, CA
US 91911

Contact: Mitchell Cogswell
Cogswellmarinemotorsports@gmail.com

T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.27	---	---	---
Oxidation (PA)	%	56	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 1	---	---	---

Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	█ 2	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 81	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 2031	---	---	---
Magnesium	ppm	█ 102	---	---	---
Zinc	ppm	█ 1161	---	---	---
Phosphorus	ppm	█ 978	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 71	---	---	---

Depot: VP152133
Unique No: 10602575
Signed: Doug Bogart
Report Date: 11 Aug 2023

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GRAPHS

