

OIL ANALYSIS REPORT



DAVID JOHNSTONE DAVID JOHNSTONE - STARBOARD DIESEL ENGINE

Sample No: VPA050695
Oil Type: CATALYS SAE 30

SAMPLE INFORMATION

Sample Number	VPA050695	VPA050552	---	---
Sample Date	08 Jul 2024	25 Jun 2024	---	---
Machine Hours	20	0	---	---
Oil Hours	20	0	---	---
Oil Changed	Not Changd	N/A	---	---
Sample Status	NORMAL	ABNORMAL	---	---

Bridgeview Marine Services
 PO Box 22044, Twin Lake Postal Outlet
 SARNIA, ON
 CA N7S 6J4
 Contact: Keegan Wade
 keegan@bvms.ca
 T: (519)339-0454
 F:

OIL CONDITION

Visc @ 40°C	cSt	---	▲ 89.0	---	---
Visc @ 100°C	cSt	■ 11.0	▲ 11.1	---	---
Viscosity Index (VI)	Scale	---	▲ 111	---	---
Oxidation (PA)	%	31	32	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.7	■ 0.7	---	---
Nitration (PA)	%	39	40	---	---
Sulfation (PA)	%	41	43	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	▲ 1.9	---	---
Silicon	ppm	■ 18	■ 19	---	---
Sodium	ppm	■ 4	■ 5	---	---
Potassium	ppm	■ 2	■ 2	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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	■ 73	■ 71	---	---
Copper	ppm	■ 12	■ 13	---	---
Lead	ppm	■ 4	■ 5	---	---
Tin	ppm	■ 23	▲ 27	---	---
Aluminum	ppm	■ 2	■ 2	---	---
Chromium	ppm	■ 3	■ 4	---	---
Molybdenum	ppm	■ 23	■ 26	---	---
Nickel	ppm	■ <1	■ <1	---	---
Titanium	ppm	■ 1	■ 1	---	---
Silver	ppm	■ 0	■ <1	---	---
Manganese	ppm	1	■ 1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	■ 2141	■ 2272	---	---
Magnesium	ppm	■ 59	68	---	---
Zinc	ppm	■ 875	■ 927	---	---
Phosphorus	ppm	■ 802	■ 844	---	---
Barium	ppm	■ 0	■ <1	---	---
Boron	ppm	■ 1	2	---	---

Depot: VP627399
Unique No: 5812138
Signed: Kevin Marson
Report Date: 09 Jul 2024

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VOLVO PENTA

GRAPHS

