

OIL ANALYSIS REPORT

VOLVO PENTA

JIM HICKEY WESTERBEKE D-707 - GENSET

Sample No: VPA059318
Oil Type: MERCURY 10W30

SAMPLE INFORMATION

Sample Number	VPA059318	VPA038612	---	---
Sample Date	23 Oct 2023	07 Mar 2022	---	---
Machine Hours	408	0	---	---
Oil Hours	2	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 11.2	12.7	---	---
Base Number (BN)	mg KOH/g	9.0	█ 9.4	---	---
Oxidation (PA)	%	45	43	---	---

CONTAMINATION

Soot %	%	█ 0	█ 0	---	---
Nitration (PA)	%	38	41	---	---
Sulfation (PA)	%	42	43	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 5	---	---
Sodium	ppm	█ 7	█ 4	---	---
Potassium	ppm	█ <1	█ <1	---	---

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	█ 2	█ 6	---	---
Copper	ppm	█ 2	█ 3	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 5	█ 4	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	42	█ 47	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	█ 0	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	<1	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1940	█ 2237	---	---
Magnesium	ppm	26	█ 12	---	---
Zinc	ppm	764	█ 923	---	---
Phosphorus	ppm	653	█ 768	---	---
Barium	ppm	0	█ 0	---	---
Boron	ppm	184	█ 211	---	---

Depot: VP1080862
Unique No: 10714086
Signed: Don Baldrige
Report Date: 30 Oct 2023

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GRAPHS

