

OIL ANALYSIS REPORT

**VOLVO
PENTA**

CHRIS SLOCUM KOHLER SGM32GS6H - GENSET

Sample No: VPA025768
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA025768	VPA027942	VPA023744	---
Sample Date	09 Aug 2023	04 Sep 2019	27 Aug 2018	---
Machine Hours	456	299	207	---
Oil Hours	0	92	207	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	ATTENTION	---

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OIL CONDITION

Visc @ 100°C	cSt	14.5	14.9	14.00	---
Base Number (BN)	mg KOH/g	7.9	---	---	---
Oxidation (PA)	%	67	72	67	---

CONTAMINATION

Soot %	%	0.1	0.1	0.2	---
Nitration (PA)	%	53	61	57	---
Sulfation (PA)	%	54	56	53	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	20	100	203	---
Sodium	ppm	3	10	24	---
Potassium	ppm	5	0	0	---

WEAR METALS

Iron	ppm	19	24	42	---
Copper	ppm	<1	4	12	---
Lead	ppm	<1	3	5	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	1	3	6	---
Chromium	ppm	<1	3	4	---
Molybdenum	ppm	17	17	47	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	4	11	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	2068	2234	1354	---
Magnesium	ppm	238	256	738	---
Zinc	ppm	1221	1136	1005	---
Phosphorus	ppm	1001	869	842	---
Barium	ppm	0	0	1	---
Boron	ppm	179	124	6	---

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: VP303974
Unique No: 10621096
Signed: Don Baldrige
Report Date: 28 Aug 2023

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GRAPHS

