OIL ANALYSIS REPORT

VOLVO PENTA

RITTER KOHLER SGM32JGLF - GENSET

Sample No: VPA058515

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number		**VPA058515**	---	---	---
Sample Date		**19 Feb 2024**	---	---	---
Machine Hours		**0**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**12.9**	---	---	---
Base Number (BN)	mg KOH/g	**8.7**	---	---	---
Oxidation (PA)	%	**72**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	**0.1**	---	---	---
Nitration (PA)	%	**54**	---	---	---
Sulfation (PA)	%	**55**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**54**	---	---	---
Sodium	ppm	**4**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

Iron	ppm	**9**	---	---	---
Copper	ppm	**2**	---	---	---
Lead	ppm	**<1**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	**<1**	---	---	---
Chromium	ppm	**2**	---	---	---
Molybdenum	ppm	**51**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**<1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**1037**	---	---	---
Magnesium	ppm	**878**	---	---	---
Zinc	ppm	**1124**	---	---	---
Phosphorus	ppm	**927**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**8**	---	---	---

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Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VP1174336
Unique No: 10886742
Signed: Don Baldridge
Report Date: 21 Feb 2024

OIL ANALYSIS REPORT

VOLVO PENTA

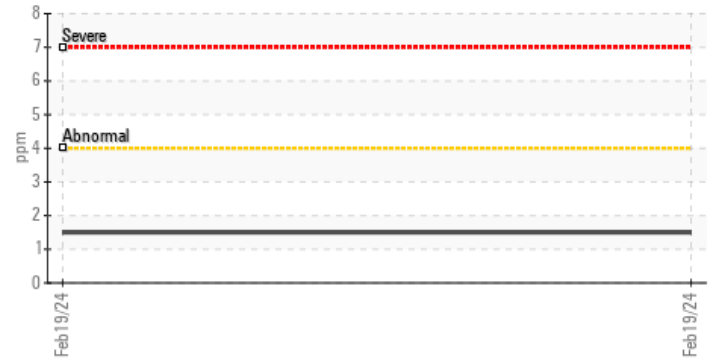
GRAPHS

Iron (ppm)

Lead (ppm)

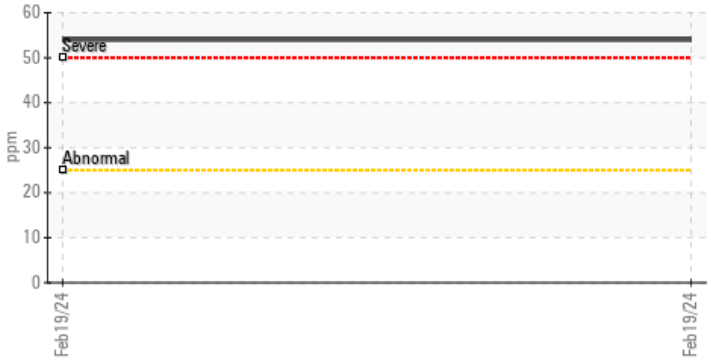
Aluminum (ppm)

Chromium (ppm)



Copper (ppm)

▲ Silicon (ppm)



Viscosity @ 100°C

Base Number