OIL ANALYSIS REPORT

VOLVO PENTA

JAMES QUEEN 43764 KOHLER SGM32N6MM - GENSET

Sample No: VPA055169

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number		**VPA055169**	---	---	---
Sample Date		**17 Nov 2023**	---	---	---
Machine Hours		**691**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**SEVERE**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**14.8**	---	---	---
Base Number (BN)	mg KOH/g	**7.4**	---	---	---
Oxidation (PA)	%	**65**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	**0.2**	---	---	---
Nitration (PA)	%	**66**	---	---	---
Sulfation (PA)	%	**63**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**21**	---	---	---
Sodium	ppm	**2566**	---	---	---
Potassium	ppm	**107**	---	---	---

WEAR METALS

Iron	ppm	**100**	---	---	---
Copper	ppm	**11**	---	---	---
Lead	ppm	**2**	---	---	---
Tin	ppm	**1**	---	---	---
Aluminum	ppm	**33**	---	---	---
Chromium	ppm	**52**	---	---	---
Molybdenum	ppm	**8**	---	---	---
Nickel	ppm	**1**	---	---	---
Titanium	ppm	**<1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**3**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**1835**	---	---	---
Magnesium	ppm	**569**	---	---	---
Zinc	ppm	**1071**	---	---	---
Phosphorus	ppm	**851**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**128**	---	---	---

COASTAL CAROLINA YACHT SALES
145 LOCKWOOD BLVD
CHARLESTON, SC
US 29403
Contact: STEVE VASAS
steve@ccyachtsales.com
T:
F:

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Piston, ring and cylinder wear is indicated. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VP568144
Unique No: 10764738
Signed: Jonathan Hester
Report Date: 01 Dec 2023

OIL ANALYSIS REPORT

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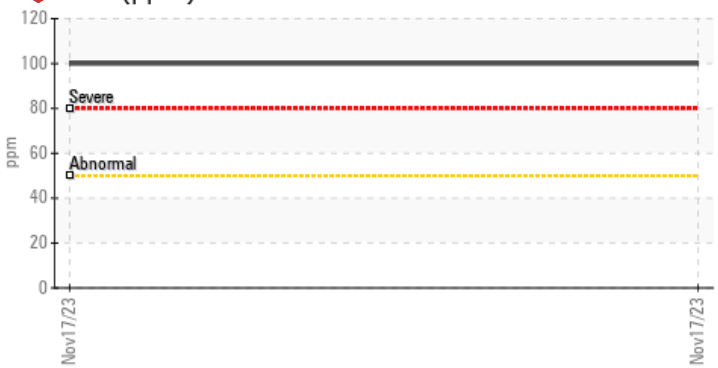
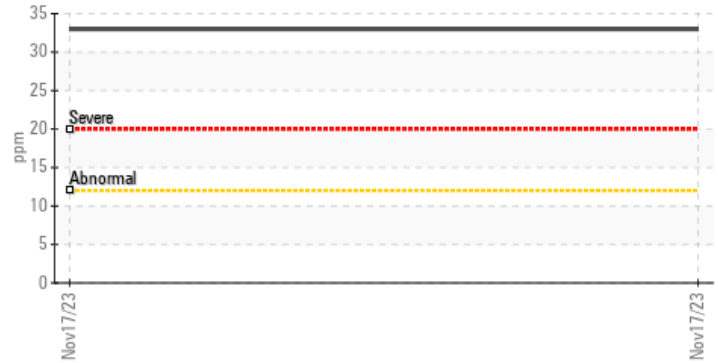
GRAPHS

Iron (ppm)

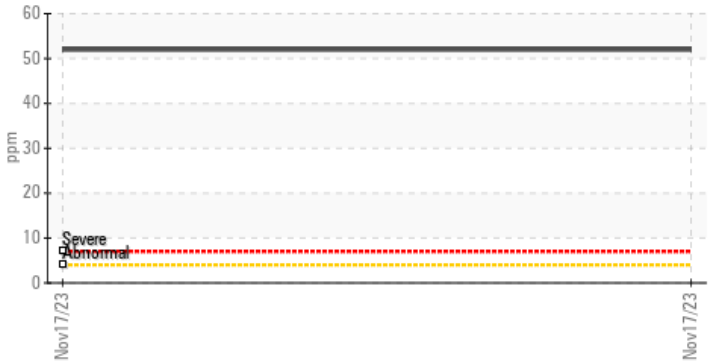


Lead (ppm)

Aluminum (ppm)

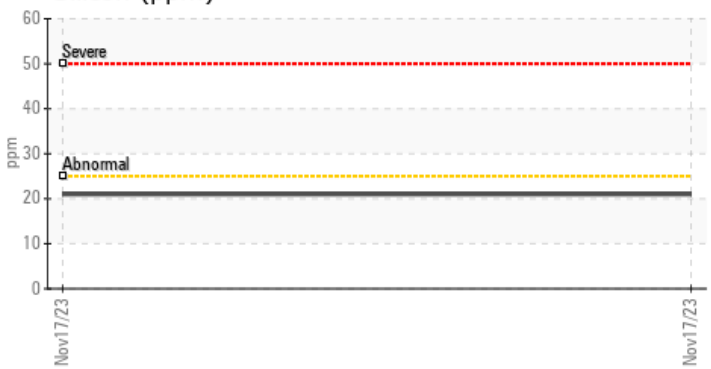


Chromium (ppm)

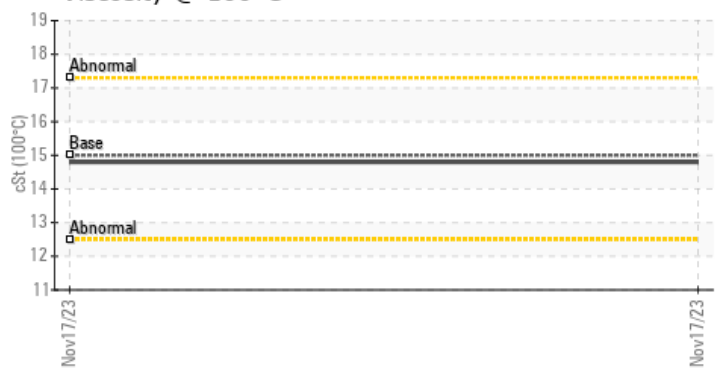


Copper (ppm)

Silicon (ppm)



Viscosity @ 100°C



Base Number