OIL ANALYSIS REPORT

VOLVO PENTA

1640 ONAN D160945617 - CENTER GENSET

Sample No: VPA044371

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number		**VPA044371**	---	---	---
Sample Date		**14 Jul 2023**	---	---	---
Machine Hours		**850**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**13.25**	---	---	---
Oxidation (PA)	%	**73**	---	---	---

CONTAMINATION

Soot %	%	**0.2**	---	---	---
Nitration (PA)	%	**68**	---	---	---
Sulfation (PA)	%	**57**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**5**	---	---	---
Sodium	ppm	**3**	---	---	---
Potassium	ppm	**1**	---	---	---

WEAR METALS

Iron	ppm	**9**	---	---	---
Copper	ppm	**2**	---	---	---
Lead	ppm	**0**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	**2**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**42**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**<1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	**1413**	---	---	---
Magnesium	ppm	**749**	---	---	---
Zinc	ppm	**963**	---	---	---
Phosphorus	ppm	**777**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**45**	---	---	---

SMART DIESEL SERVICE
102 NW 133RD AVE, UNIT 103
PLANTATION, FL
US 33325
Contact: ANDRES GARMENDIA
smartdieselservice@gmail.com
T: (954)258-8100
F:

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal for OEM. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

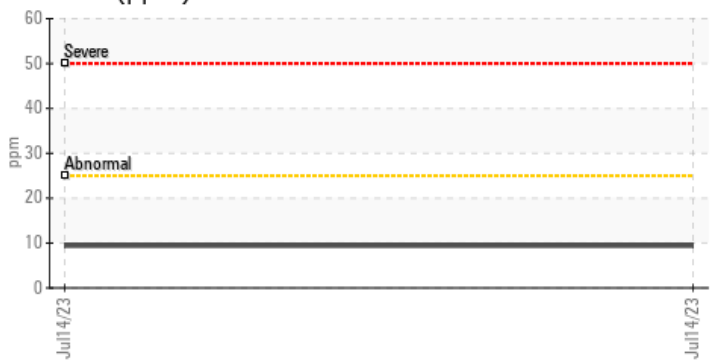
Depot: VPSMAPLA
Unique No: 10561744
Signed: Doug Bogart
Report Date: 17 Jul 2023

OIL ANALYSIS REPORT

VOLVO PENTA

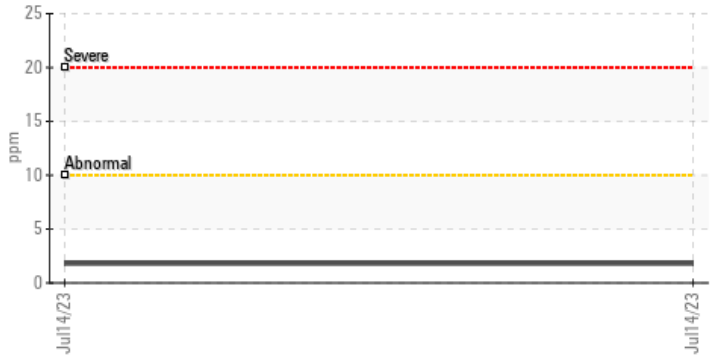
GRAPHS

Iron (ppm)

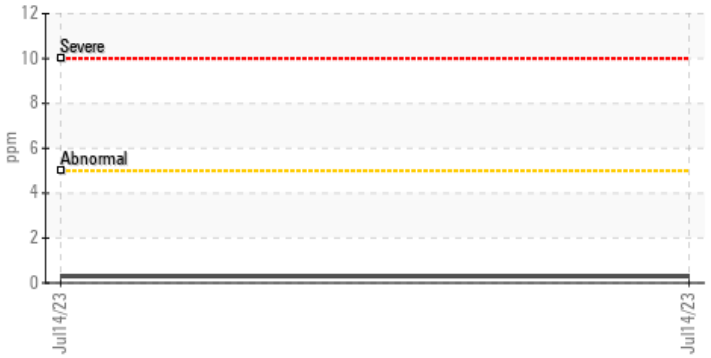


Lead (ppm)

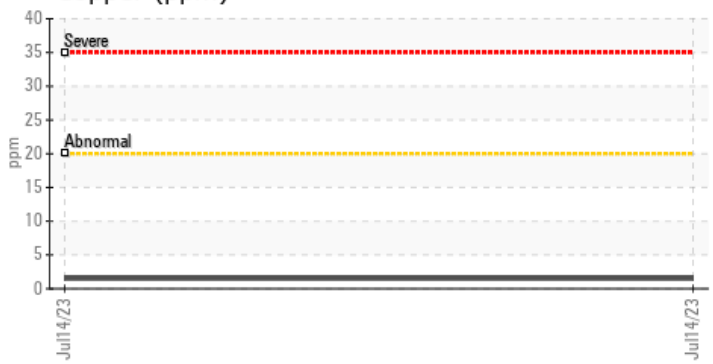
Aluminum (ppm)



Chromium (ppm)

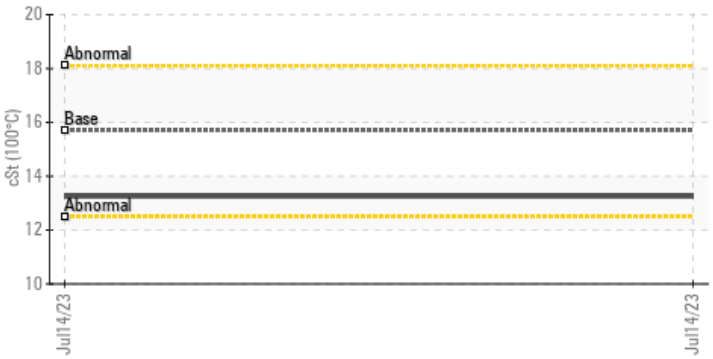


Copper (ppm)



Silicon (ppm)

Viscosity @ 100°C



Base Number