OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA A440694 - CENTER LEFT DIESEL ENGINE

Sample No: VPA053340

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

SAMPLE INFORMATION

Sample Number		**VPA053340**	---	---	---
Sample Date		**25 Apr 2024**	---	---	---
Machine Hours		**1758**	---	---	---
Oil Hours		**80**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**13.0**	---	---	---
Base Number (BN)	mg KOH/g	**10.2**	---	---	---
Oxidation (PA)	%	**55**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	**0.3**	---	---	---
Nitration (PA)	%	**48**	---	---	---
Sulfation (PA)	%	**52**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**7**	---	---	---
Sodium	ppm	**1**	---	---	---
Potassium	ppm	**<1**	---	---	---

WEAR METALS

Iron	ppm	**14**	---	---	---
Copper	ppm	**3**	---	---	---
Lead	ppm	**1**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	**2**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**59**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**1058**	---	---	---
Magnesium	ppm	**956**	---	---	---
Zinc	ppm	**1253**	---	---	---
Phosphorus	ppm	**1054**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**2**	---	---	---

FDDA FT PIERCE - POWER CENTER

FORT PIERCE, FL
US
Contact: KYLE GRASER
k.graser@kirbycorp.com
T:
F:

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: VP208659
Unique No: 11016889
Signed: Don Baldridge
Report Date: 08 May 2024

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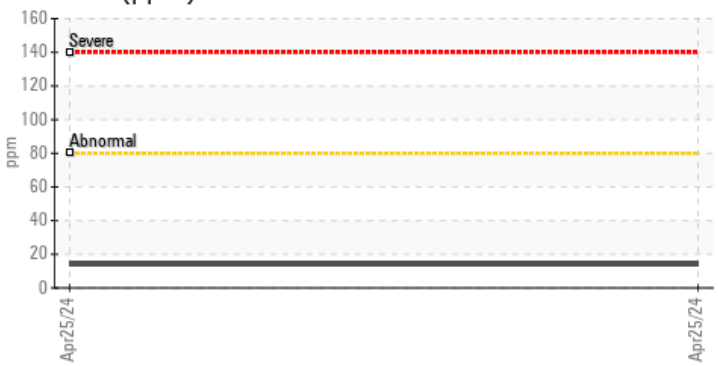
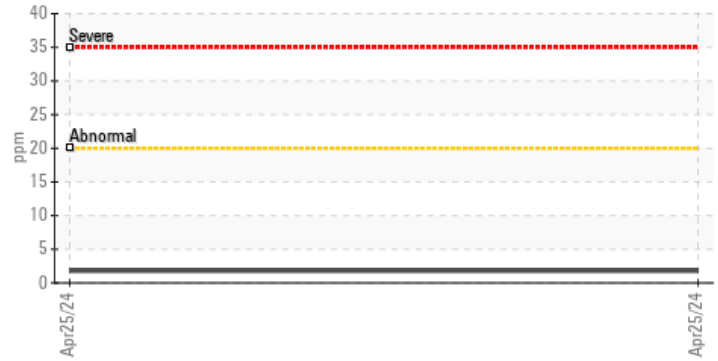
GRAPHS

Iron (ppm)

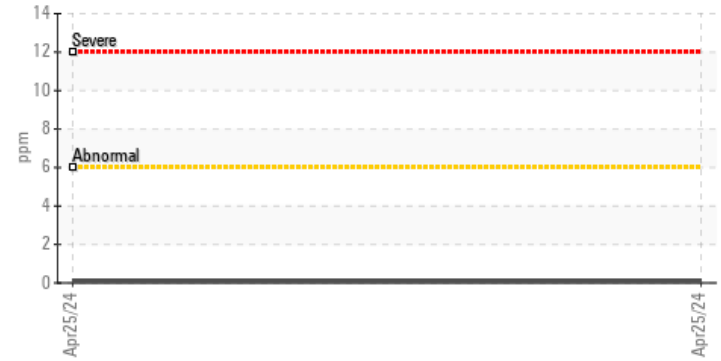


Lead (ppm)

Aluminum (ppm)



Chromium (ppm)



Copper (ppm)

Silicon (ppm)

Viscosity @ 100°C

Base Number