OIL ANALYSIS REPORT

VOLVO PENTA

DON GREEN 6592 HINO W06D TA11930 - STARBOARD DIESEL ENGINE

Sample No: VPA060820

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number		**VPA060820**	---	---	---
Sample Date		**10 Apr 2024**	---	---	---
Machine Hours		**1106**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**MARGINAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**12.8**	---	---	---
Base Number (BN)	mg KOH/g	**7.9**	---	---	---
Oxidation (PA)	%	**57**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	**0.1**	---	---	---
Nitration (PA)	%	**72**	---	---	---
Sulfation (PA)	%	**50**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**7**	---	---	---
Sodium	ppm	**24**	---	---	---
Potassium	ppm	**4**	---	---	---

WEAR METALS

Iron	ppm	**95**	---	---	---
Copper	ppm	**8**	---	---	---
Lead	ppm	**3**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	▲ **23**	---	---	---
Chromium	ppm	**2**	---	---	---
Molybdenum	ppm	**28**	---	---	---
Nickel	ppm	**<1**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**1390**	---	---	---
Magnesium	ppm	**594**	---	---	---
Zinc	ppm	**903**	---	---	---
Phosphorus	ppm	**839**	---	---	---
Barium	ppm	**<1**	---	---	---
Boron	ppm	**226**	---	---	---

Northwest Diesel Power
1325 ROEDER AVE SUITE 103
BELLINGHAM, WA
US 98225
Contact: TRAVIS THOMAS
ttdiesel@yahoo.com
T: (360)739-9525
F:

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.The aluminum level is abnormal. All other 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: VP759009
Unique No: 10978574
Signed: Doug Bogart
Report Date: 16 Apr 2024

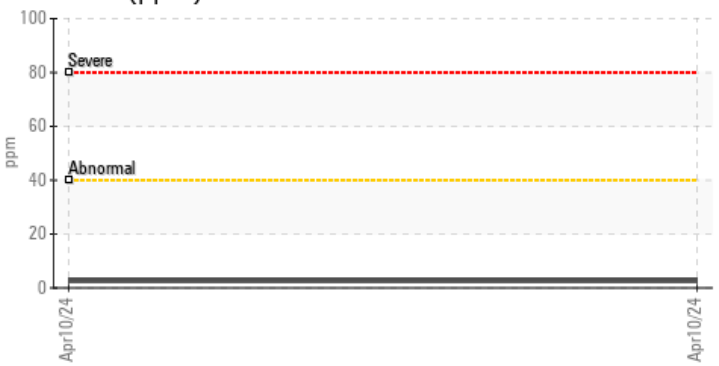
OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

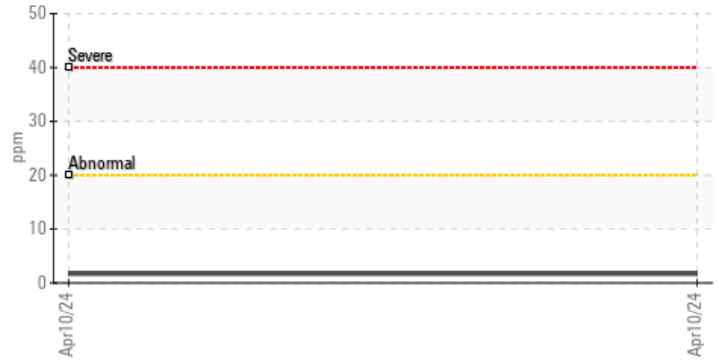
Iron (ppm)

Lead (ppm)

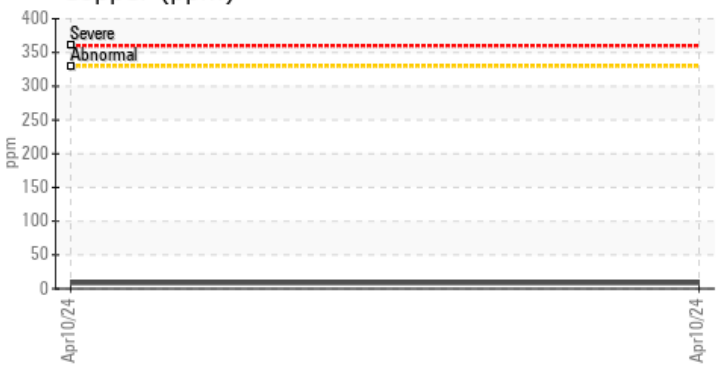


▲ Aluminum (ppm)

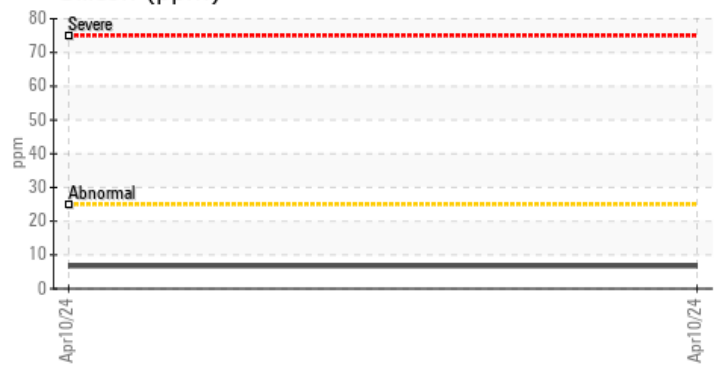
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C

Base Number