OIL ANALYSIS REPORT

VOLVO PENTA

DUNBECK 500-257 JC VOLVO PENTA A589620 - STARBOARD DIESEL ENGINE

Sample No: VPA057020

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number		**VPA057020**	---	---	---
Sample Date		**15 Dec 2023**	---	---	---
Machine Hours		**798**	---	---	---
Oil Hours		**100**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**14.5**	---	---	---
Base Number (BN)	mg KOH/g	**7.9**	---	---	---
Oxidation (PA)	%	**68**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	**0.6**	---	---	---
Nitration (PA)	%	**65**	---	---	---
Sulfation (PA)	%	**59**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**4**	---	---	---
Sodium	ppm	**1**	---	---	---
Potassium	ppm	**5**	---	---	---

WEAR METALS

Iron	ppm	**12**	---	---	---
Copper	ppm	**7**	---	---	---
Lead	ppm	**0**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	**2**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**10**	---	---	---
Nickel	ppm	**1**	---	---	---
Titanium	ppm	**<1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	**1951**	---	---	---
Magnesium	ppm	**146**	---	---	---
Zinc	ppm	**1162**	---	---	---
Phosphorus	ppm	**959**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**125**	---	---	---

Outstanding Marine
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T:
F:

Diagnosis

Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. 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 suitable for further service.

Depot: VP153685
Unique No: 10816313
Signed: Sean Felton
Report Date: 04 Jan 2024

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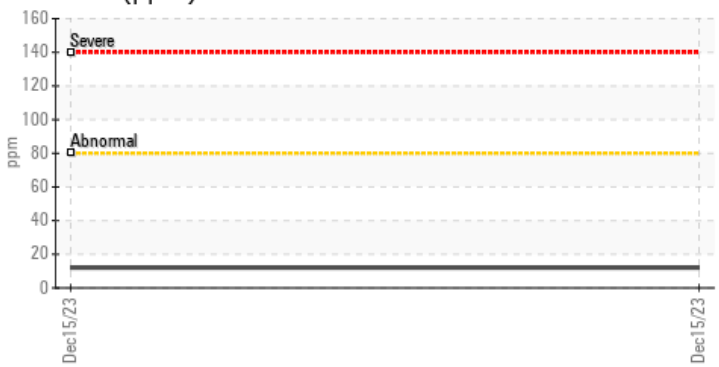
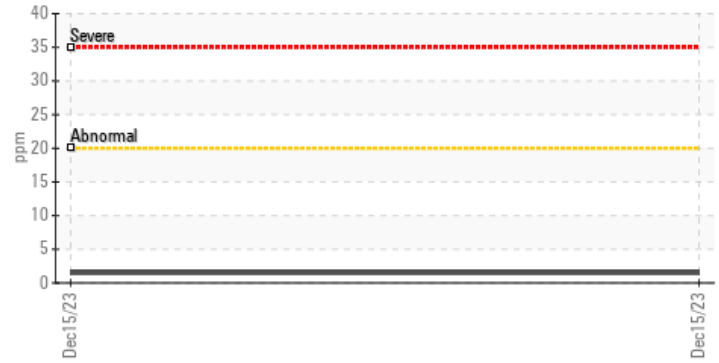
GRAPHS

Iron (ppm)

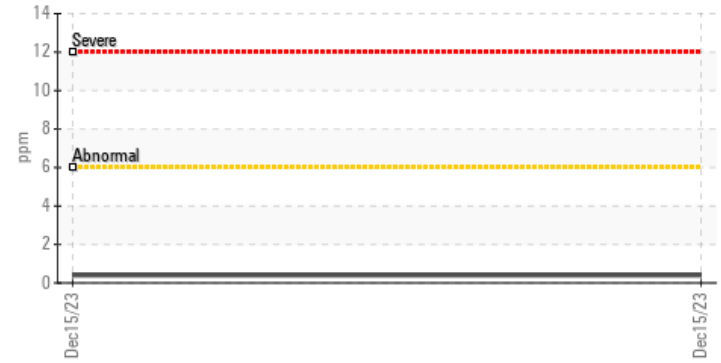


Lead (ppm)

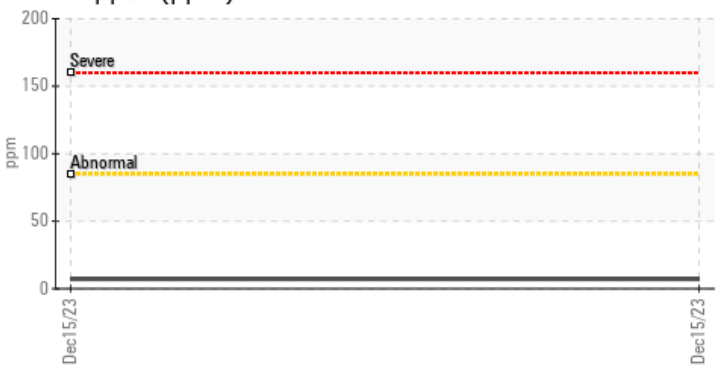
Aluminum (ppm)



Chromium (ppm)

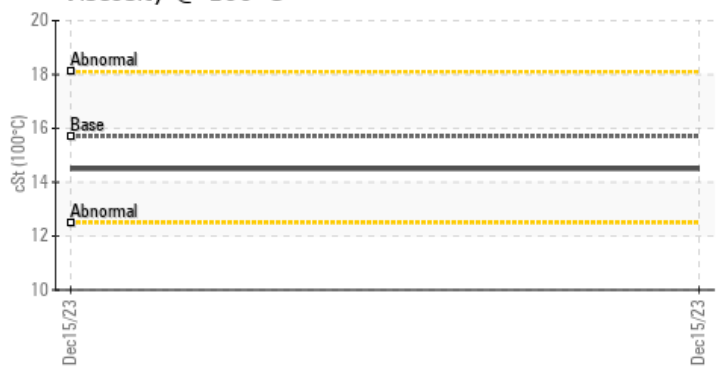


Copper (ppm)



Silicon (ppm)

Viscosity @ 100°C



Base Number