

OIL ANALYSIS REPORT

VOLVO PENTA

NOT GIVEN VPA050804 - STARBOARD HYDRAULIC SYSTEM

Sample No: VPA050804

Oil Type: SAE 0W30

SAMPLE INFORMATION

Sample Number	VPA050804	---	---	---
Sample Date	31 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2
NAPLES, FL
US 34104
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T: (239)580-8731
F:

OIL CONDITION

Visc @ 40°C	cSt	█ 43.96	---	---	---
Acid Number (AN)	mg KOH/g	█ 1.09	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 54927	---	---	---
Particles >6µm		▲ 3027	---	---	---
Particles >14µm		█ 66	---	---	---
ISO 4406:1999 (c)		23/19/13	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 6	---	---	---

Diagnosis

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		█ 22	---	---	---
Iron	ppm	█ 14	---	---	---
Copper	ppm	▲ 321	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 49	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 2323	---	---	---
Magnesium	ppm	█ 13	---	---	---
Zinc	ppm	█ 794	---	---	---
Phosphorus	ppm	█ 695	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 214	---	---	---

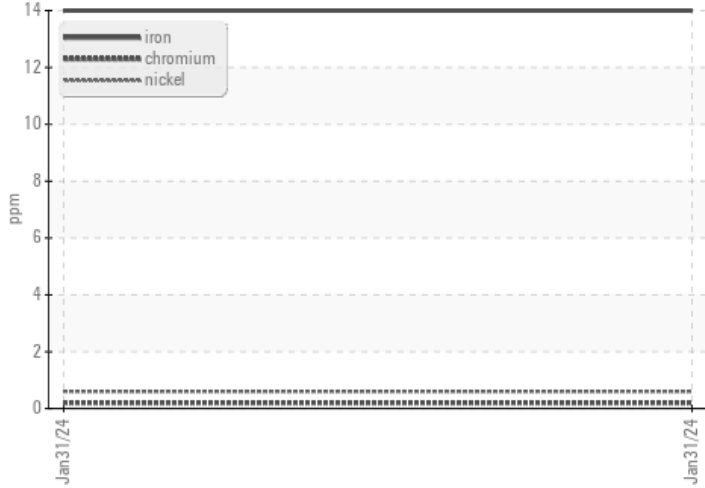
Depot: VPADVNP
Unique No: 10860858
Signed: Doug Bogart
Report Date: 02 Feb 2024

OIL ANALYSIS REPORT

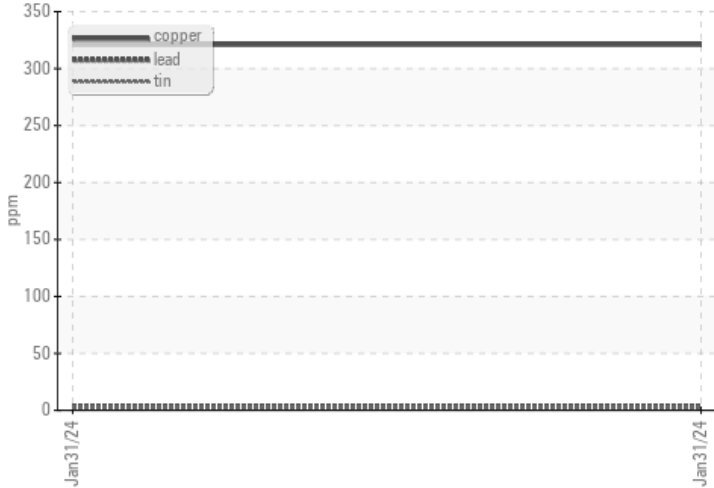
**VOLVO
PENTA**

GRAPHS

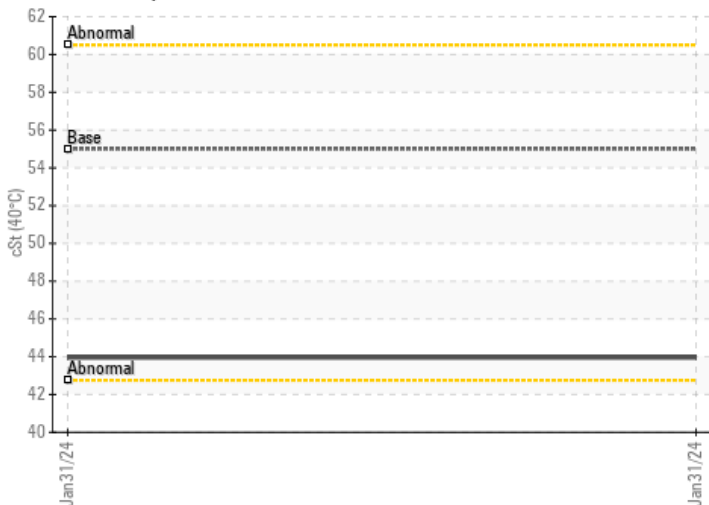
Ferrous Alloys



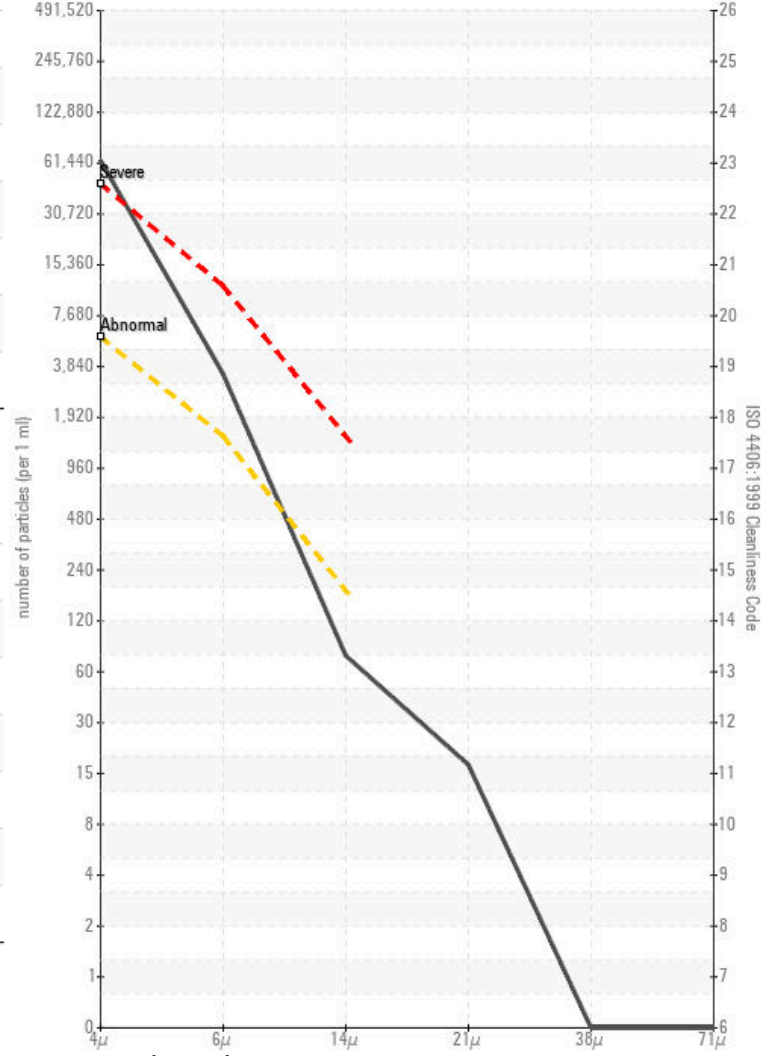
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

