

OIL ANALYSIS REPORT

VOLVO PENTA

WINDSERVE VOLVO PENTA 10132167964 - PORT DIESEL ENGINE

Sample No: VPA045094
Oil Type: VOLVO 10W40

SAMPLE INFORMATION

Sample Number	VPA045094	VPA045100	---	---
Sample Date	17 Aug 2023	16 Aug 2023	---	---
Machine Hours	2	2	---	---
Oil Hours	2	2	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	SEVERE	SEVERE	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 12.95	█ 12.88	---	---
Base Number (BN)	mg KOH/g	█ 9.9	█ 9.9	---	---
Oxidation (PA)	%	71	71	---	---

CONTAMINATION

Soot %	%	█ 0	█ 0	---	---
Nitration (PA)	%	43	43	---	---
Sulfation (PA)	%	56	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 16	█ 15	---	---
Sodium	ppm	█ 3	█ 3	---	---
Potassium	ppm	█ 3	█ 3	---	---

WEAR METALS

Iron	ppm	█ 2	█ 2	---	---
Copper	ppm	█ 2	█ 2	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 0	█ 0	---	---
Chromium	ppm	█ 0	█ 0	---	---
Molybdenum	ppm	█ 46	█ 45	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 2	█ <1	---	---
Manganese	ppm	1	<1	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	█ 1780	█ 1740	---	---
Magnesium	ppm	█ 398	█ 388	---	---
Zinc	ppm	█ 1107	█ 1072	---	---
Phosphorus	ppm	█ 895	█ 884	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 78	█ 77	---	---

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Diagnosis

Recommend drain oil if not already done and flush before refilling with oil. We advise that you inspect for the source(s) of metal. We recommend an early resample to monitor this condition. Moderate concentration of visible metal present. All component wear rates are normal. There is a high amount of particulates present in the oil. The condition of the oil is acceptable for the time in service.

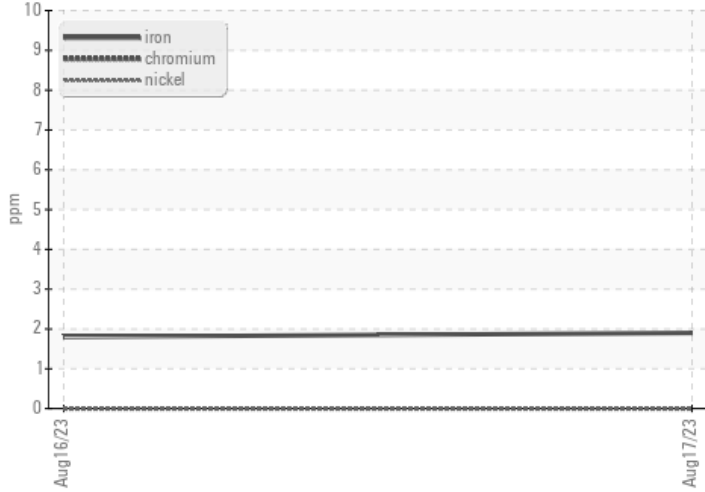
Depot: VPSENNOR
Unique No: 10609063
Signed: Doug Bogart
Report Date: 21 Aug 2023

OIL ANALYSIS REPORT

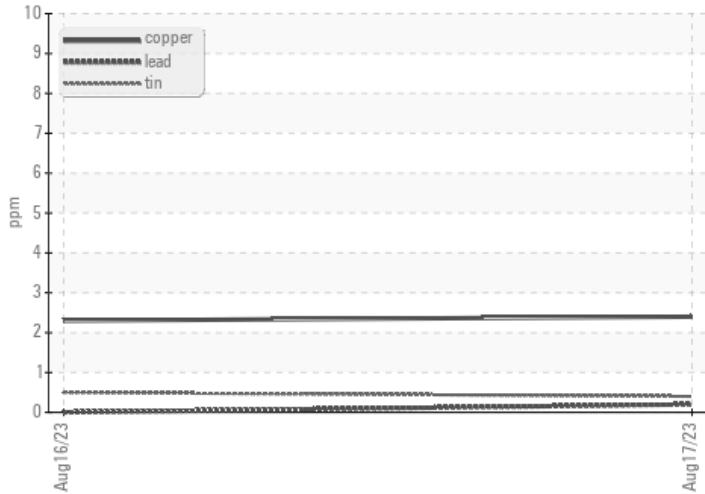
VOLVO PENTA

GRAPHS

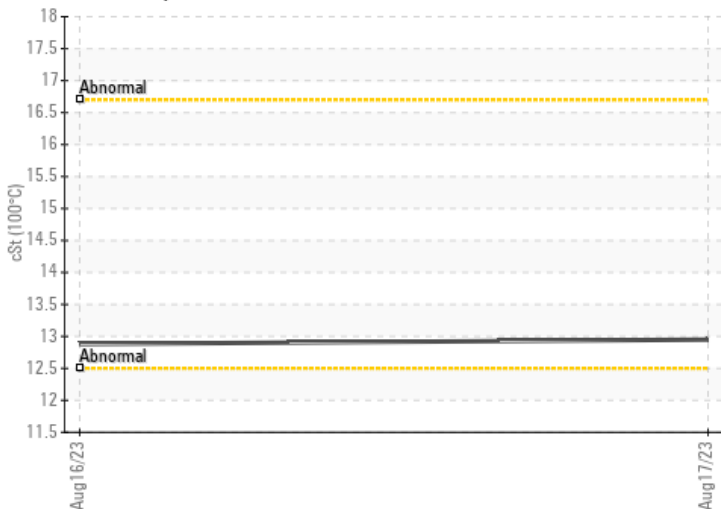
Ferrous Alloys



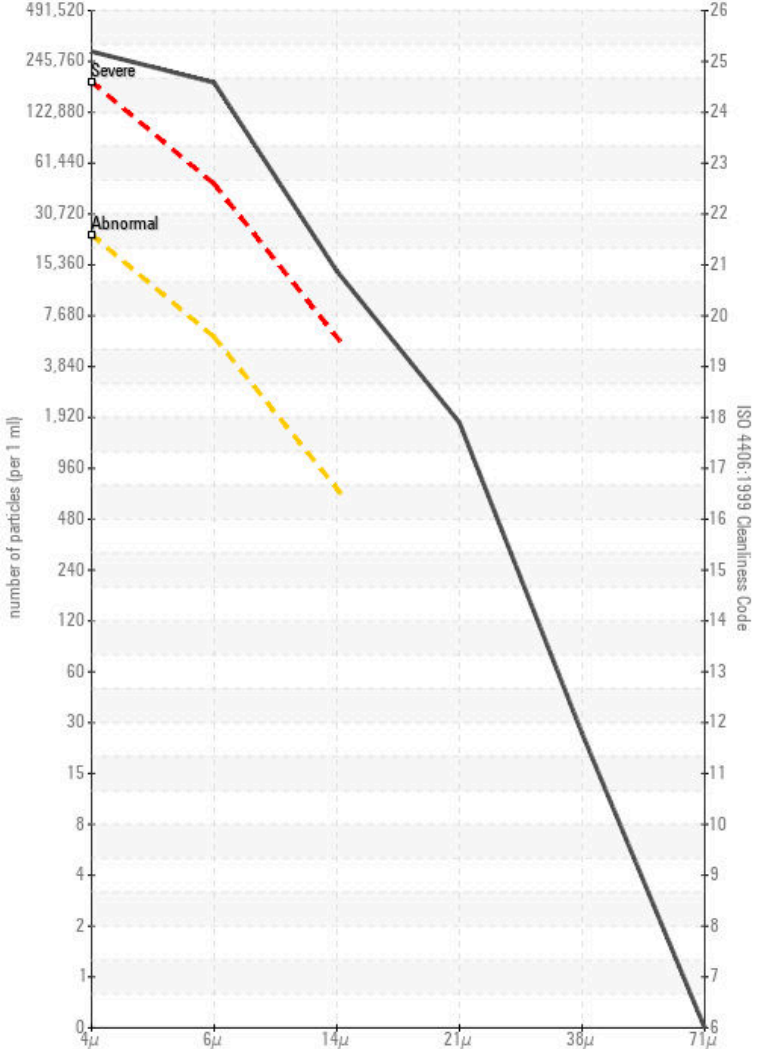
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



Base Number

