

OIL ANALYSIS REPORT

VOLVO PENTA

WINDSERVE BOTTOM SUMP VOLVO PENTA 10132167560 - DIESEL ENGINE

Sample No: VPA045098

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA045098	VPA036061	VPA036064	VPA045093
Sample Date	19 Aug 2023	18 Aug 2023	18 Aug 2023	18 Aug 2023
Machine Hours	1	0	1	1
Oil Hours	1	1	1	0
Oil Changed	Changed	Not Changd	Changed	N/A
Sample Status	SEVERE	SEVERE	SEVERE	SEVERE

SENESCO MARINE

10 MACNAUGHT ST
NORTH KINGSTOWN, RI
US 02852

Contact: CLAUDINO LUCIANO
cluciano@senescomarine.com

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OIL CONDITION

Visc @ 100°C	cSt	12.98	12.95	12.91	12.91
Base Number (BN)	mg KOH/g	9.9	9.9	10.0	10.0
Oxidation (PA)	%	71	71	71	71

CONTAMINATION

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

WEAR METALS

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

ADDITIVES

Calcium	ppm	1745	1757	1769	1751
Magnesium	ppm	387	389	391	388
Zinc	ppm	1076	1081	1087	1078
Phosphorus	ppm	894	900	893	887
Barium	ppm	0	0	0	0
Boron	ppm	76	76	77	77

Diagnosis

Oil and filter change at the time of sampling has been noted. 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.

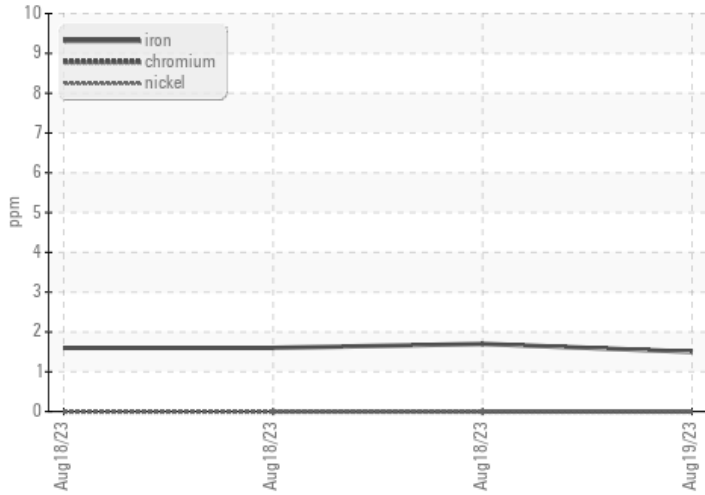
Depot: VPSENNOR
Unique No: 10609079
Signed: Doug Bogart
Report Date: 21 Aug 2023

OIL ANALYSIS REPORT

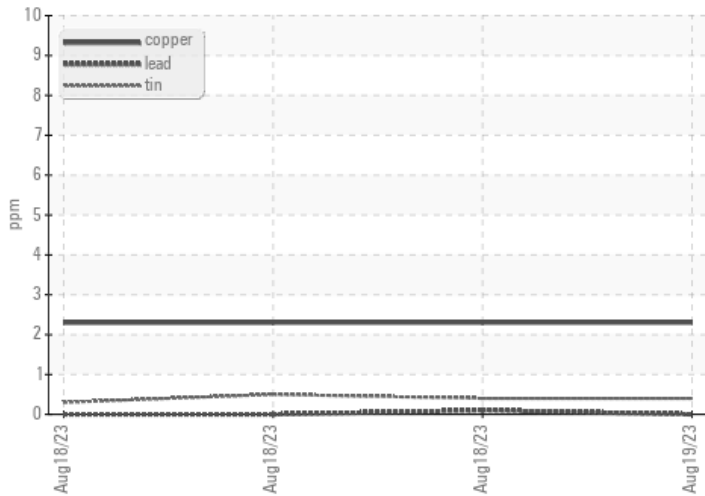
VOLVO PENTA

GRAPHS

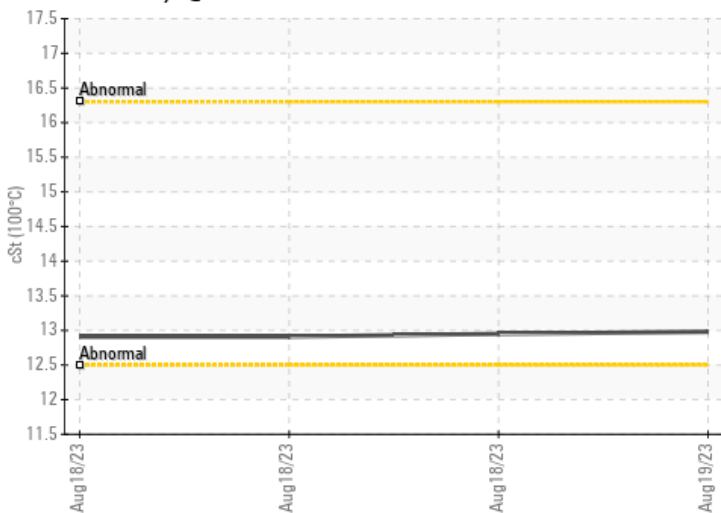
Ferrous Alloys



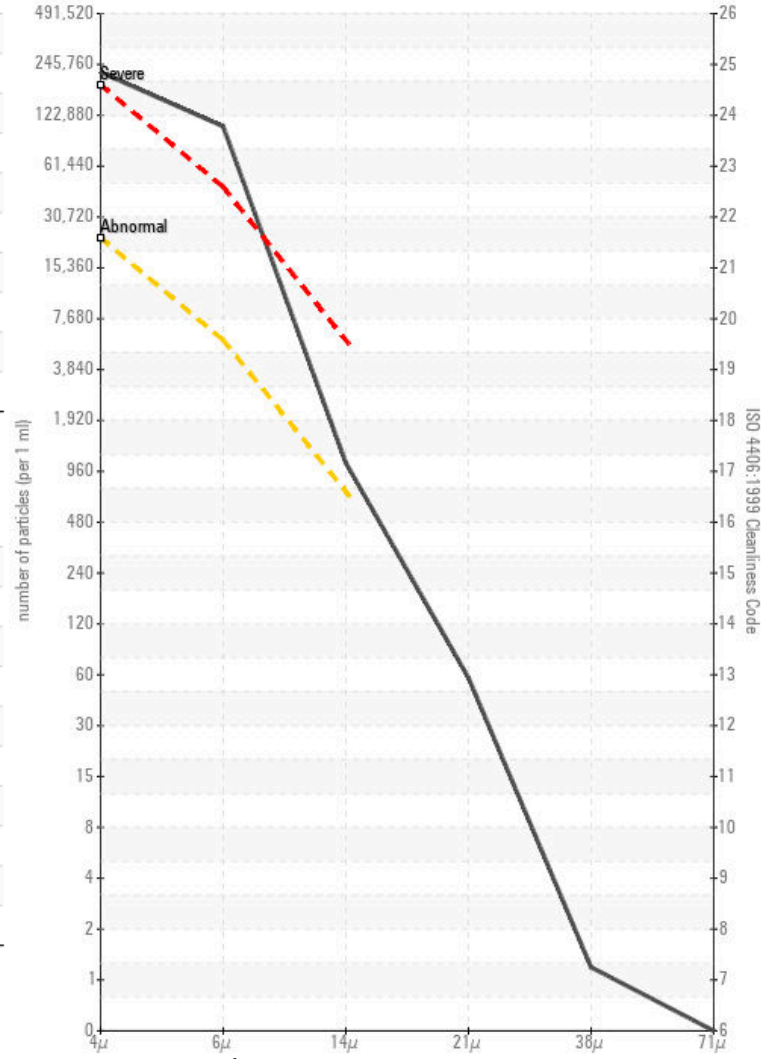
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



Base Number

