

OIL ANALYSIS REPORT



WINDSERVE VOLVO PENTA 10132167964 - PORT DIESEL ENGINE

Sample No: VPA046616
Oil Type: VOLVO 10W40

SAMPLE INFORMATION

Sample Number	VPA046616	VPA045097	VPA045094	VPA045100
Sample Date	17 Aug 2023	17 Aug 2023	17 Aug 2023	16 Aug 2023
Machine Hours	2	1	2	2
Oil Hours	2	1	2	2
Oil Changed	N/A	Changed	N/A	N/A
Sample Status	SEVERE	SEVERE	SEVERE	SEVERE

SENESCO MARINE
 10 MACNAUGHT ST
 NORTH KINGSTOWN, RI
 US 02852
 Contact: CLAUDINO LUCIANO
 cluciano@senescomarine.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	12.91	12.91	12.95	12.88
Base Number (BN)	mg KOH/g	9.8	8.0	9.9	9.9
Oxidation (PA)	%	71	69	71	71

CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	43	42	43	43
Sulfation (PA)	%	56	54	56	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	16	15	16	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	<1	0	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	0	0	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	47	46	46	45
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	2	<1
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	<1	<1	<1	<1

ADDITIVES

Calcium	ppm	1818	1763	1780	1740
Magnesium	ppm	410	393	398	388
Zinc	ppm	1128	1086	1107	1072
Phosphorus	ppm	927	899	895	884
Barium	ppm	0	0	0	0
Boron	ppm	80	77	78	77

Diagnosis

We recommend you service the filters on this component if applicable. 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.

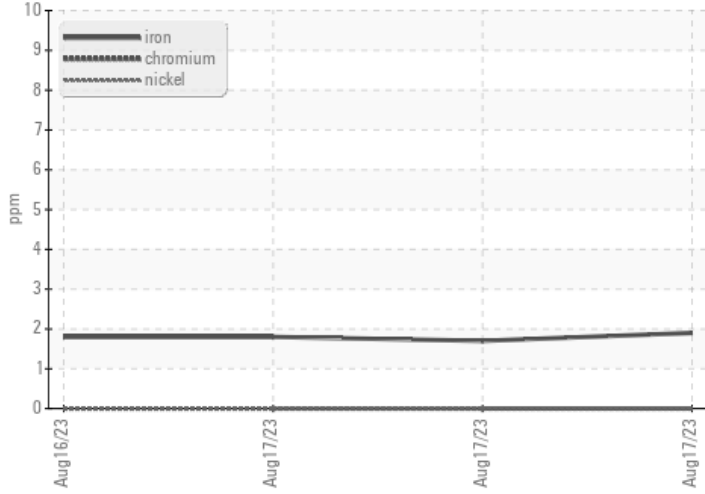
Depot: VPSENNOR
Unique No: 10609078
Signed: Doug Bogart
Report Date: 21 Aug 2023

OIL ANALYSIS REPORT

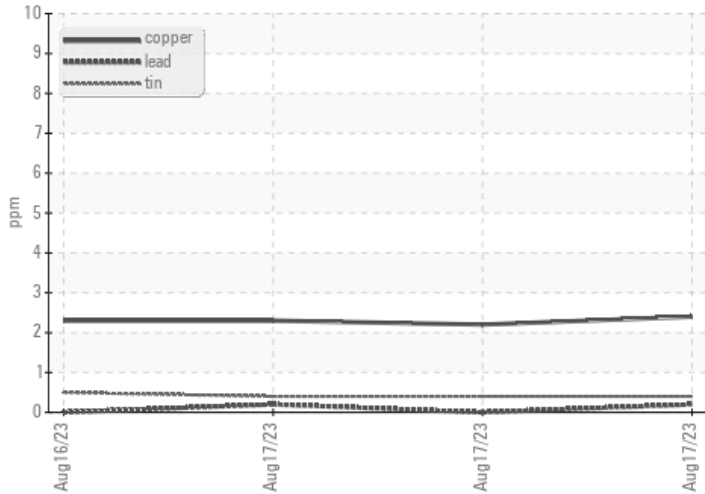
VOLVO PENTA

GRAPHS

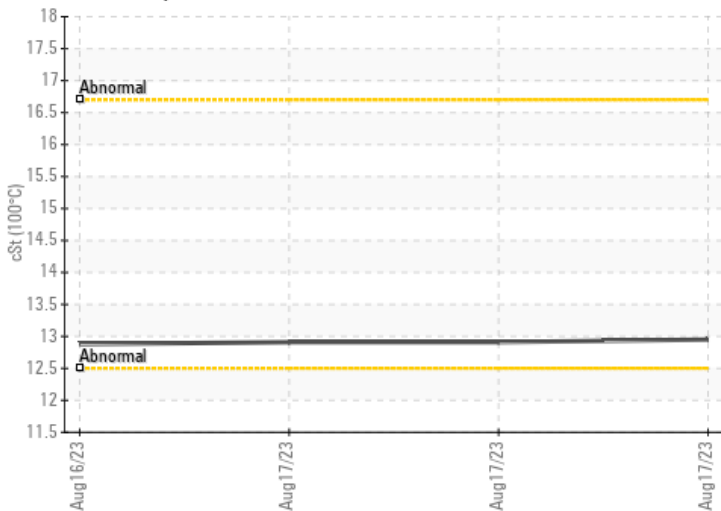
Ferrous Alloys



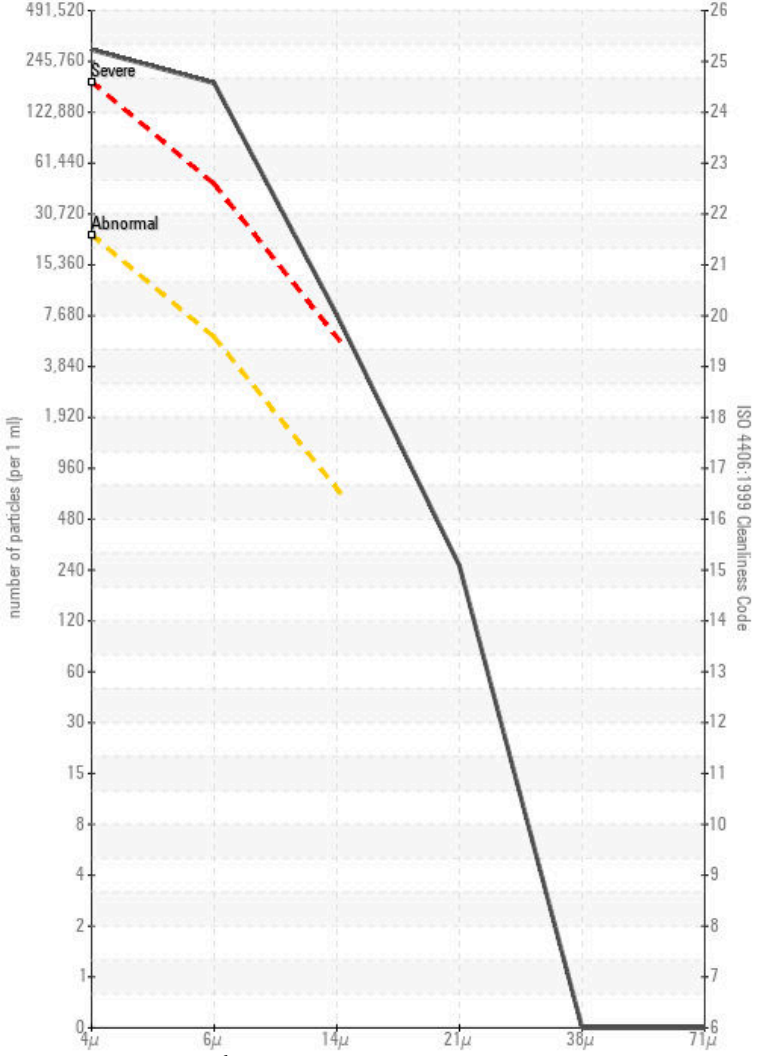
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



Base Number

