

OIL ANALYSIS REPORT



GENESIS VOLVO PENTA 10132167933 - 2 DIESEL ENGINE

Sample No: VPA036199
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA036199	VPA036127	VPA045092	VPA045099
Sample Date	25 Mar 2024	21 Aug 2023	20 Aug 2023	20 Aug 2023
Machine Hours	2115	0	0	0
Oil Hours	0	7	1	1
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	ABNORMAL	SEVERE	SEVERE	SEVERE

WINDSERVE MARINE
 10 MACNAUGHT ST
 NORTH KINGSTOWN, RI
 US 02852
 Contact: Ryan Linn
 RyanL@windservemarine.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.1	13.01	12.88	12.95
Base Number (BN)	mg KOH/g	9.5	9.9	9.9	9.8
Oxidation (PA)	%	61	72	72	72

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0	0	0
Nitration (PA)	%	61	43	43	43
Sulfation (PA)	%	55	56	56	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	16	16	15
Sodium	ppm	<1	3	3	3
Potassium	ppm	0	3	3	3

WEAR METALS

Iron	ppm	9	2	2	2
Copper	ppm	2	2	2	2
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	0	0	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	60	45	45	45
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	1
Vanadium	ppm	0	<1	<1	<1

ADDITIVES

Calcium	ppm	1077	1759	1755	1753
Magnesium	ppm	971	394	394	391
Zinc	ppm	1260	1086	1078	1077
Phosphorus	ppm	1094	900	888	886
Barium	ppm	0	0	0	0
Boron	ppm	6	76	77	76

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present 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.

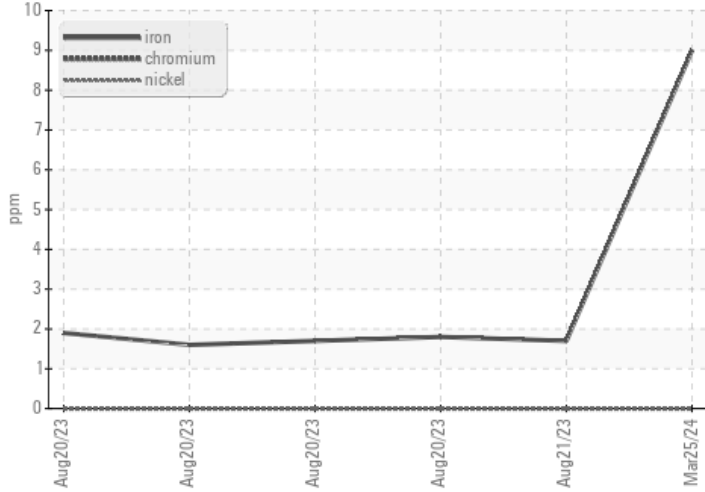
Depot: VPSENNOR
Unique No: 10965799
Signed: Jonathan Hester
Report Date: 15 Apr 2024

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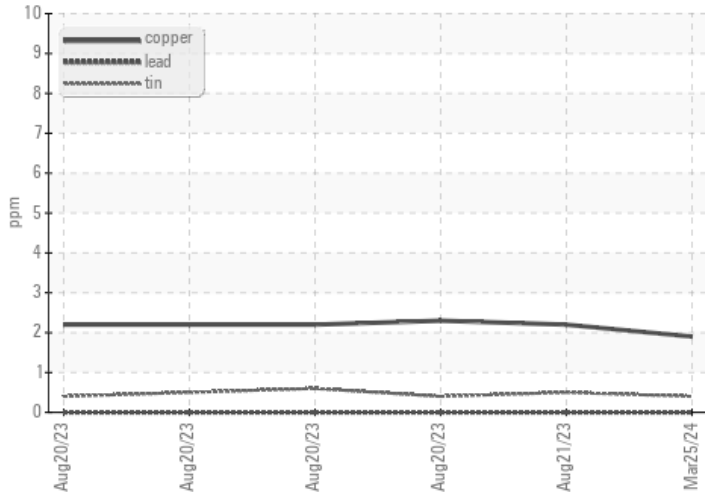
VOLVO PENTA

GRAPHS

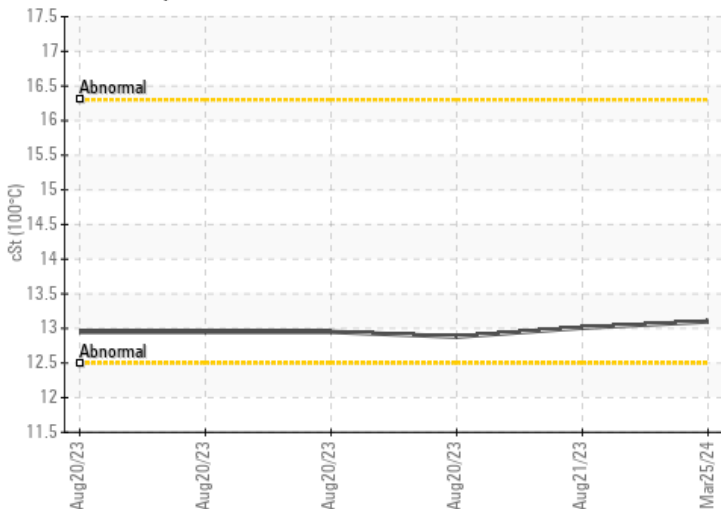
Ferrous Alloys



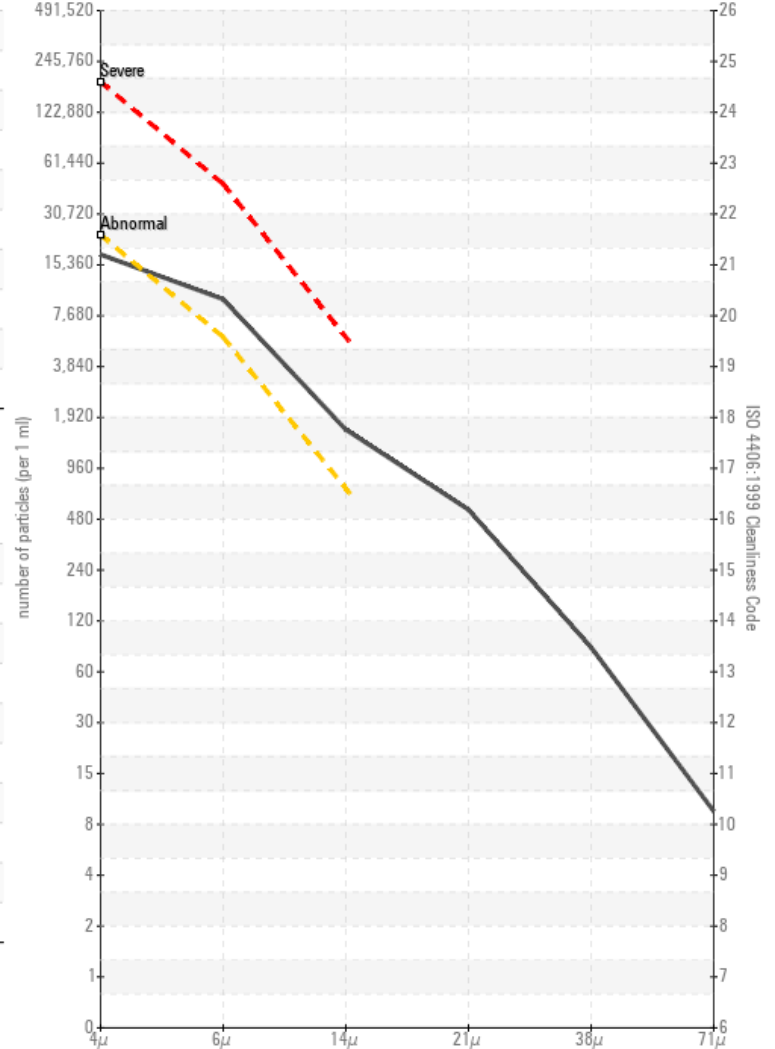
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



Base Number

