

OIL ANALYSIS REPORT



GENESIS VOLVO PENTA 10132167580 - 4 DIESEL ENGINE

Sample No: VPA055536
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA055536	VPA05929134	VPA05929135	VPA045091
Sample Date	25 Mar 2024	21 Aug 2023	20 Aug 2023	20 Aug 2023
Machine Hours	2115	0	1	1
Oil Hours	0	1	1	1
Oil Changed	N/A	Changed	Changed	Not Changd
Sample Status	ATTENTION	SEVERE	ATTENTION	ABNORMAL

WINDSERVE MARINE
 10 MACNAUGHT ST
 NORTH KINGSTOWN, RI
 US 02852
 Contact: Ryan Linn
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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.98	12.98	12.88
Base Number (BN)	mg KOH/g	9.5	9.8	9.8	9.8
Oxidation (PA)	%	61	72	72	72

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0	0	0
Nitration (PA)	%	58	43	43	43
Sulfation (PA)	%	54	57	57	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	17	17	17
Sodium	ppm	1	3	3	3
Potassium	ppm	0	3	2	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	44	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	1052	1764	1744	1763
Magnesium	ppm	963	395	394	397
Zinc	ppm	1274	1087	1079	1088
Phosphorus	ppm	1074	902	899	897
Barium	ppm	0	0	0	0
Boron	ppm	3	76	76	77

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate 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.

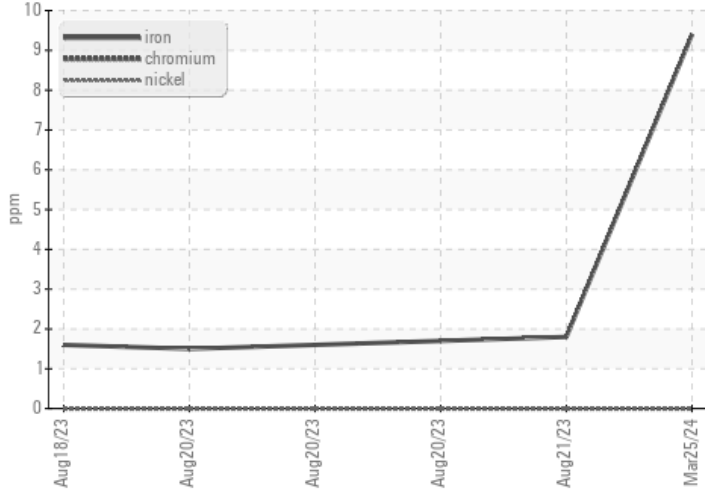
Depot: VPSENNOR
Unique No: 10965800
Signed: Jonathan Hester
Report Date: 15 Apr 2024

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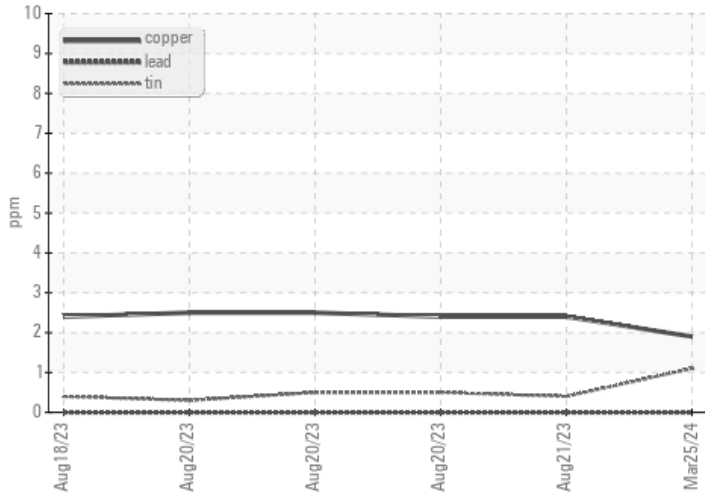
VOLVO PENTA

GRAPHS

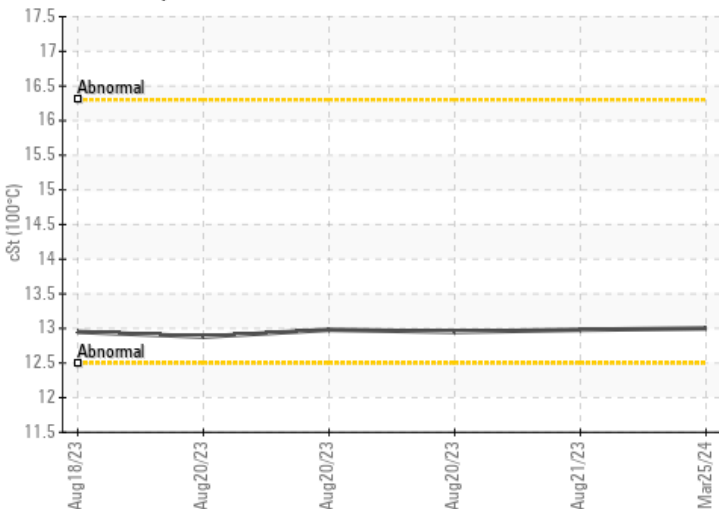
Ferrous Alloys



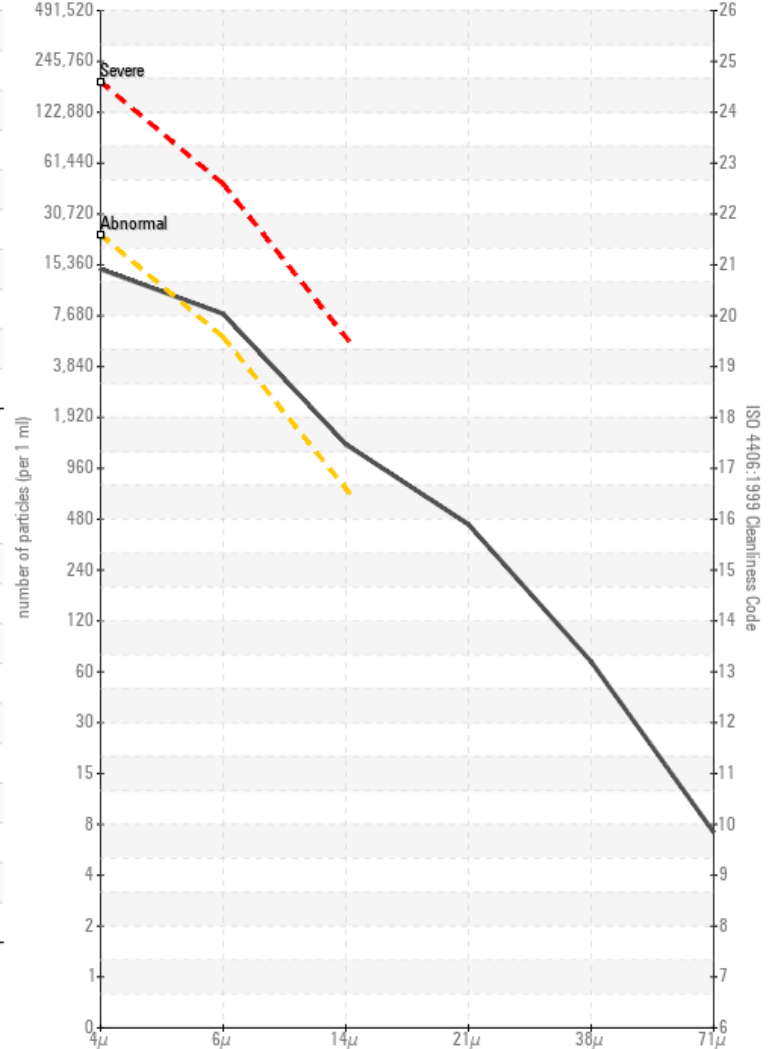
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



Base Number

