



CONSTRUCTION EQUIPMENT

DAVE BREEN 505825 VOLVO PENTA A819260 - STARBOARD DIESEL ENGINE



Sample No: VCP059431
Oil Type: VOLVO PENTA SAE 15W40
Job No: 505825



SAMPLE INFORMATION

Sample Number	VCP059431	VPA042451	VPA035454	VPA032336
Sample Date	19 Dec 2023	08 Feb 2023	06 Jan 2022	01 Mar 2021
Machine Hours	278	224	193	156
Oil Hours	54	31	50	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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24400 Jefferson Ave.
SAINT CLAIR SHORES, MI
US 48080
Contact: DENNIS BUTT
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T: (866)490-5297
F:



OIL CONDITION

Visc @ 100°C	cSt	13.4	13.5	13.3	13.7
Base Number (BN)	mg KOH/g	10.3	10.7	10.6	---
Oxidation (PA)	%	57	54	56	54

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination 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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.3	0.3
Nitration (PA)	%	44	44	46	47
Sulfation (PA)	%	52	52	54	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	7	12
Sodium	ppm	1	<1	2	0
Potassium	ppm	0	2	<1	<1



WEAR METALS

Iron	ppm	6	9	8	10
Copper	ppm	4	3	5	15
Lead	ppm	<1	2	2	1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	0	<1	1	0
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	50	61	59	59
Nickel	ppm	0	<1	1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	0	1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1103	1147	1008	1144
Magnesium	ppm	875	1046	964	919
Zinc	ppm	1148	1363	1239	1175
Phosphorus	ppm	893	1055	1032	1093
Barium	ppm	0	0	0	0
Boron	ppm	7	<1	6	4

Depot: VP297371
Unique No: 10805114
Signed: Wes Davis
Report Date: 27 Dec 2023

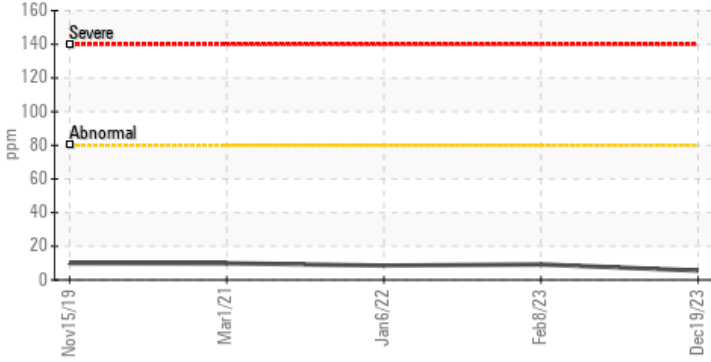


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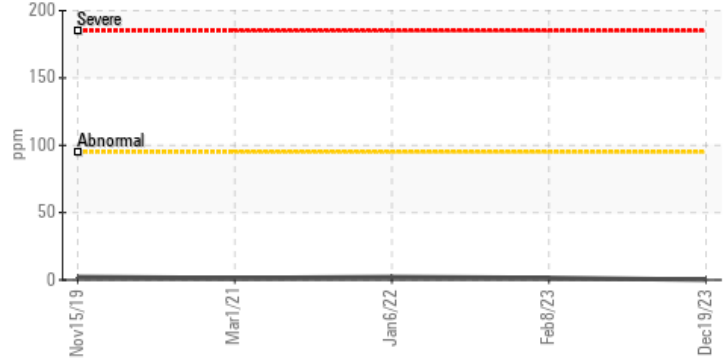


GRAPHS

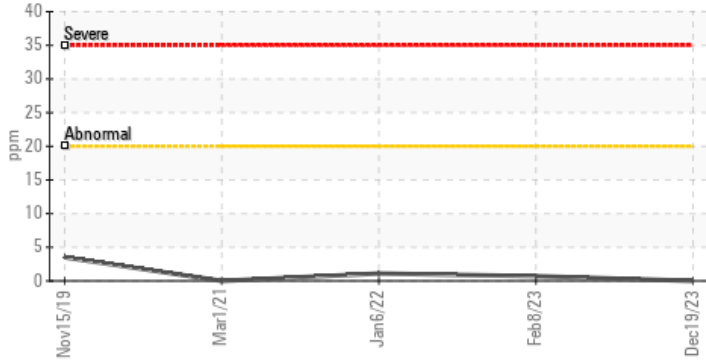
Iron (ppm)



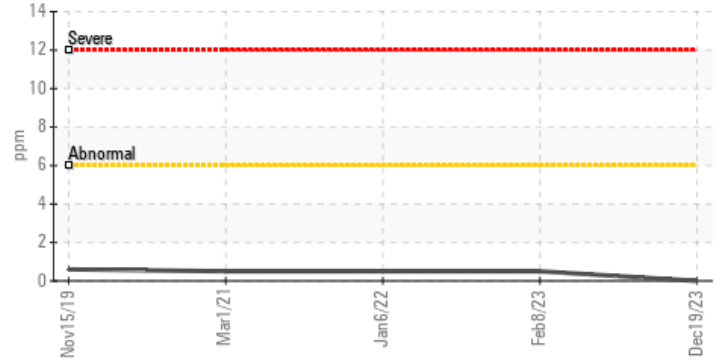
Lead (ppm)



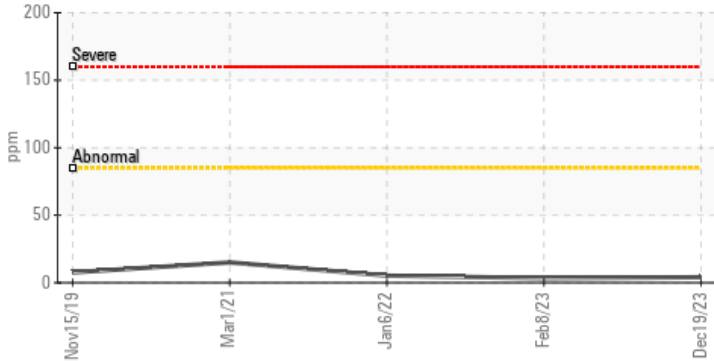
Aluminum (ppm)



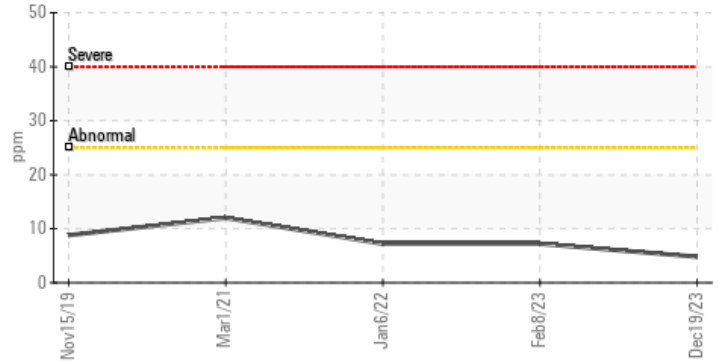
Chromium (ppm)



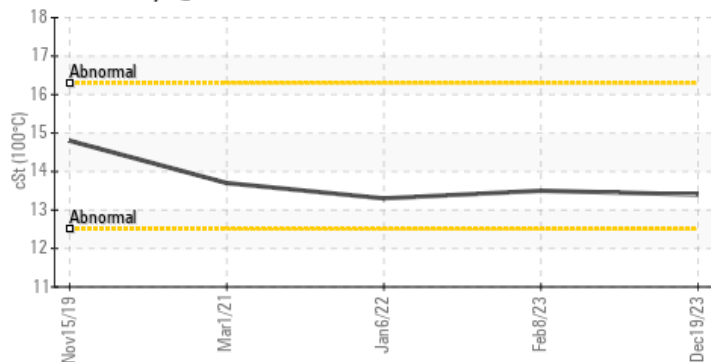
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

