



CONSTRUCTION EQUIPMENT

2858 VOLVO L180H 5343 - DIESEL ENGINE



Sample No: VCP445933
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 2858



SAMPLE INFORMATION

Sample Number	VCP445933	VCP407759	VCP397989	VCP386931
Sample Date	26 Mar 2024	26 May 2023	02 Mar 2023	10 Oct 2022
Machine Hours	7009	5450	4998	4247
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.1	12.7	12.6
Base Number (BN)	mg KOH/g	4.4	7.8	8.9	8.1
Oxidation (PA)	%	77	63	63	72

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.6	0.1
Nitration (PA)	%	69	58	73	77
Sulfation (PA)	%	72	62	57	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	6	6
Sodium	ppm	2	1	2	<1
Potassium	ppm	<1	<1	3	3

WEAR METALS

Iron	ppm	11	4	5	6
Copper	ppm	2	<1	1	3
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	4	2	3	4
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	87	84	90	112
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	1417	1483	1570	1575
Magnesium	ppm	408	400	463	563
Zinc	ppm	1264	1244	1230	907
Phosphorus	ppm	1064	997	966	743
Barium	ppm	0	0	0	0
Boron	ppm	153	398	340	215

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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.

Depot: VOLVO1023
Unique No: 10962682
Signed: Wes Davis
Report Date: 04 Apr 2024

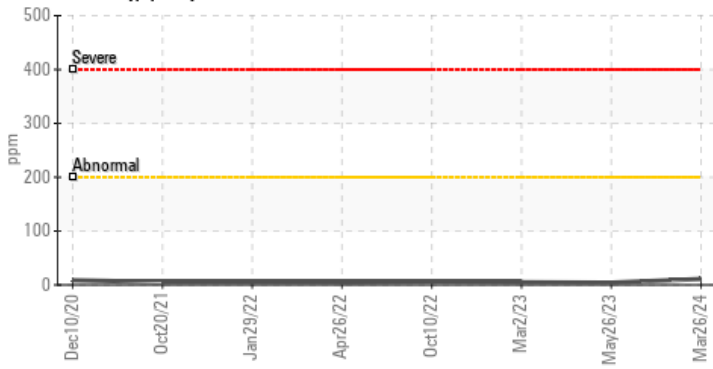


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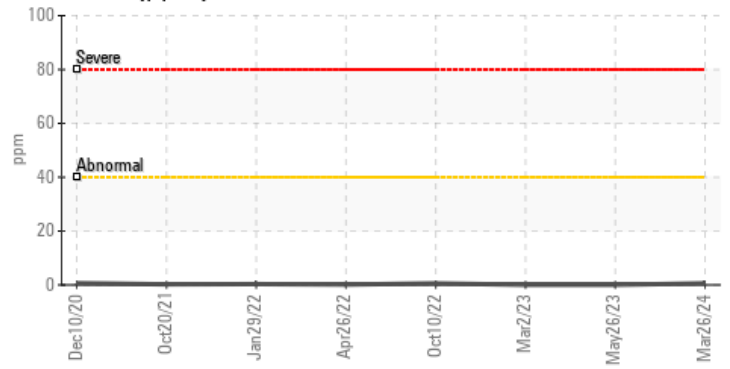


GRAPHS

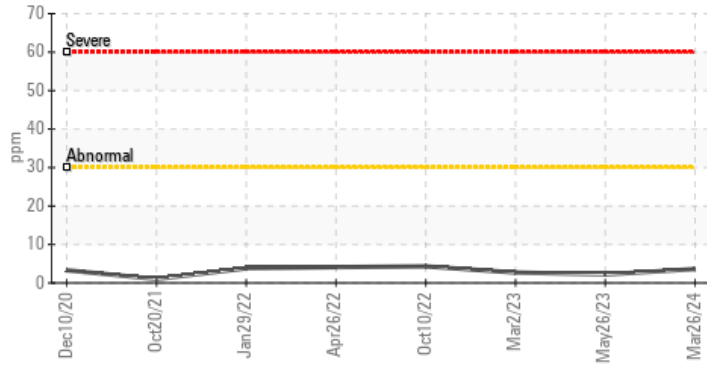
Iron (ppm)



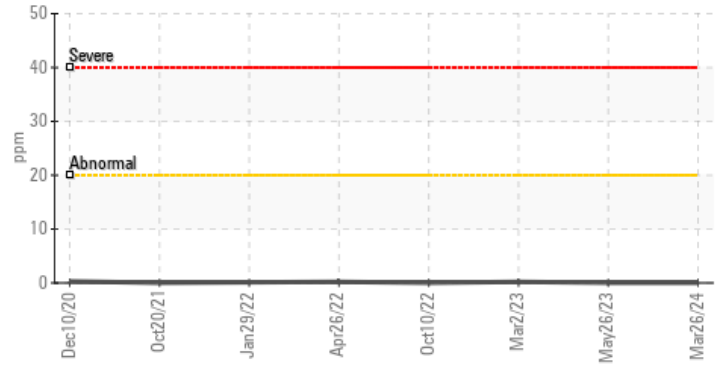
Lead (ppm)



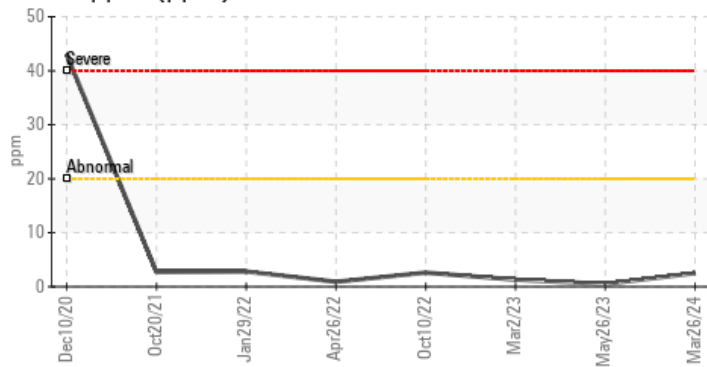
Aluminum (ppm)



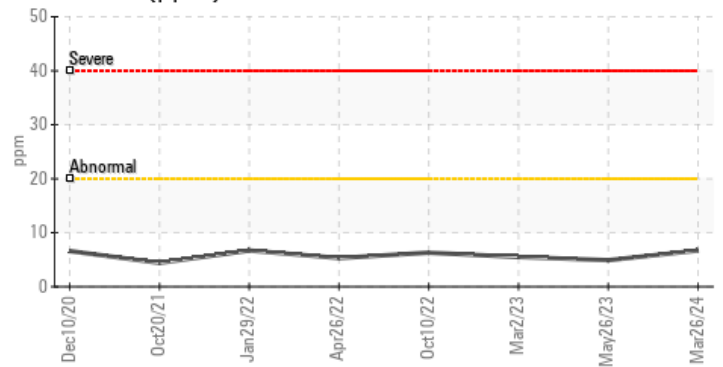
Chromium (ppm)



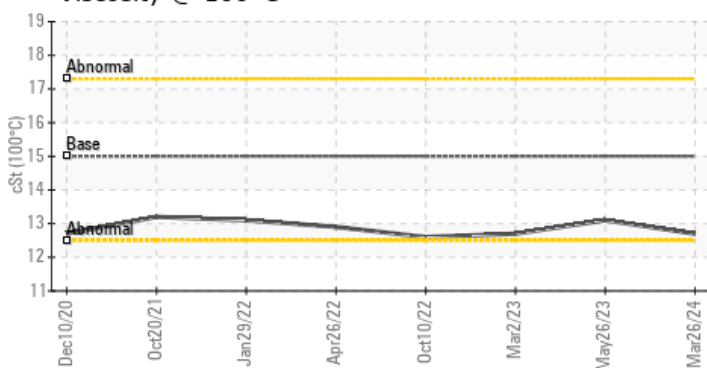
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

