



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO L110H 631211 - DIESEL ENGINE



Sample No: VCP443608
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP443608	VCP395988	VCP300220	VCP336975
Sample Date	25 Apr 2024	22 Feb 2023	06 Sep 2022	17 Nov 2021
Machine Hours	10678	9606	8781	7374
Oil Hours	0	500	500	1500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.5	13.2	13.8	14.1
Base Number (BN)	mg KOH/g	9.4	9.7	10.5	10.1
Oxidation (PA)	%	79	80	94	82



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.6	0.8	0.7
Nitration (PA)	%	62	84	104	82
Sulfation (PA)	%	61	58	66	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	8	5
Sodium	ppm	1	<1	3	2
Potassium	ppm	1	2	<1	0



WEAR METALS

Iron	ppm	20	15	15	20
Copper	ppm	2	1	2	2
Lead	ppm	<1	<1	1	1
Tin	ppm	1	<1	1	<1
Aluminum	ppm	8	7	10	6
Chromium	ppm	1	<1	1	<1
Molybdenum	ppm	47	47	42	47
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	<1	1	0



ADDITIVES

Calcium	ppm	1524	1684	1723	1673
Magnesium	ppm	580	483	548	495
Zinc	ppm	1137	1130	1186	1174
Phosphorus	ppm	1008	931	986	963
Barium	ppm	1	2	0	0
Boron	ppm	20	11	7	11

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: VOLVO0093
Unique No: 1105706
Signed: Wes Davis
Report Date: 31 May 2024

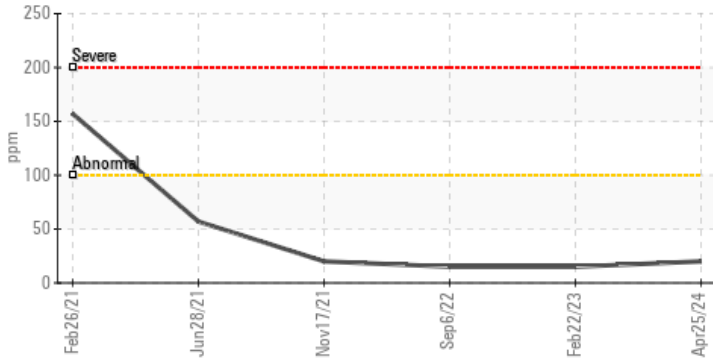


CONSTRUCTION EQUIPMENT

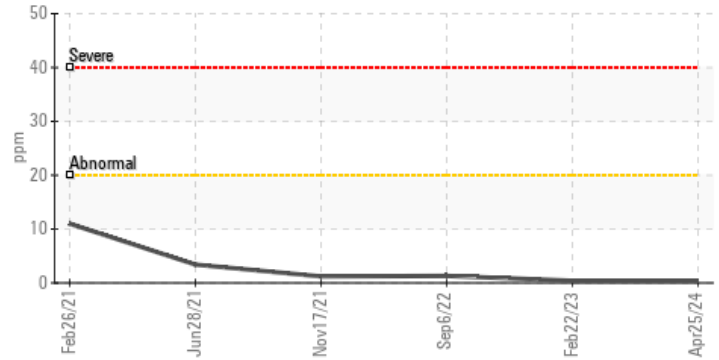


GRAPHS

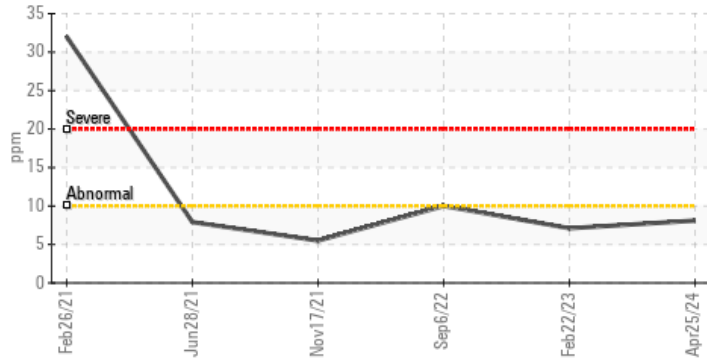
Iron (ppm)



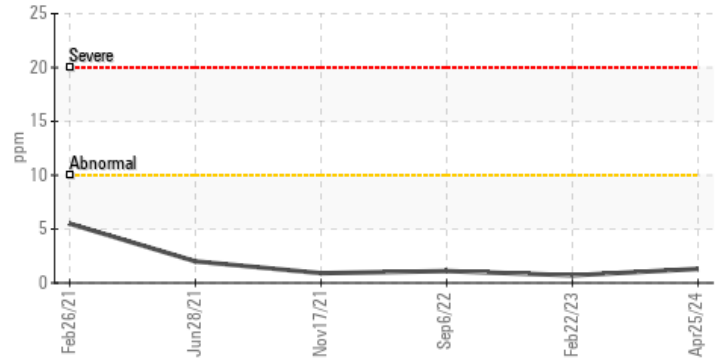
Lead (ppm)



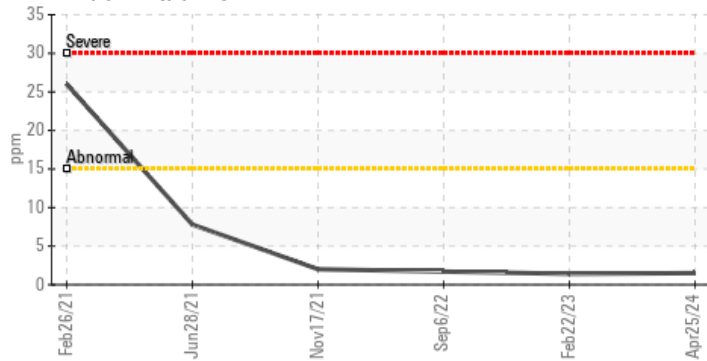
Aluminum (ppm)



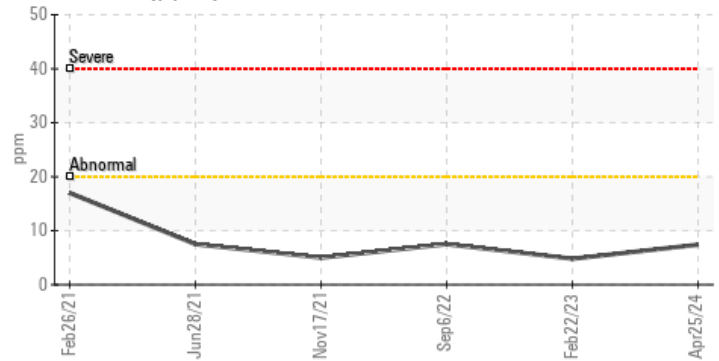
Chromium (ppm)



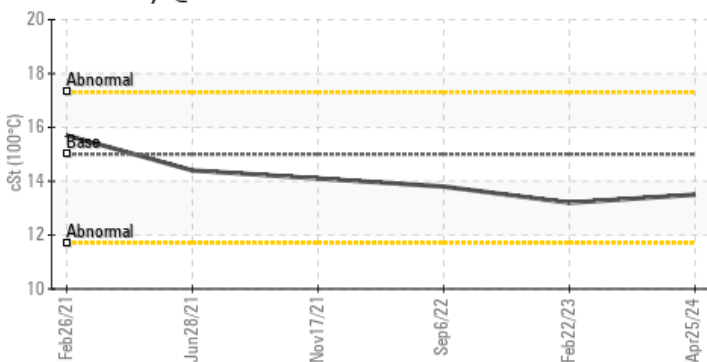
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

