



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 3546 - DIESEL ENGINE



Sample No: VCP441753
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP441753	VCP368354	VCP429824	VCP401003
Sample Date	22 Apr 2024	12 Mar 2024	31 Jan 2024	26 Dec 2023
Machine Hours	3144	2512	1987	1483
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.1	12.3	12.6
Base Number (BN)	mg KOH/g	8.5	9.5	8.3	9.1
Oxidation (PA)	%	58	53	57	57

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	58	53	58	53
Sulfation (PA)	%	52	52	51	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	6	6	4
Sodium	ppm	1	0	0	<1
Potassium	ppm	0	1	1	0

WEAR METALS

Iron	ppm	4	5	6	3
Copper	ppm	2	2	6	19
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	2	1
Aluminum	ppm	<1	2	3	<1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	59	56	77	64
Nickel	ppm	0	0	1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	1	<1
Vanadium	ppm	0	0	<1	<1

ADDITIVES

Calcium	ppm	1254	1576	1147	1105
Magnesium	ppm	941	772	954	948
Zinc	ppm	1302	1297	1238	1228
Phosphorus	ppm	1091	1098	986	1017
Barium	ppm	0	0	0	0
Boron	ppm	2	18	18	7

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: VOLVO1835
Unique No: 1100603
Signed: Wes Davis
Report Date: 02 May 2024

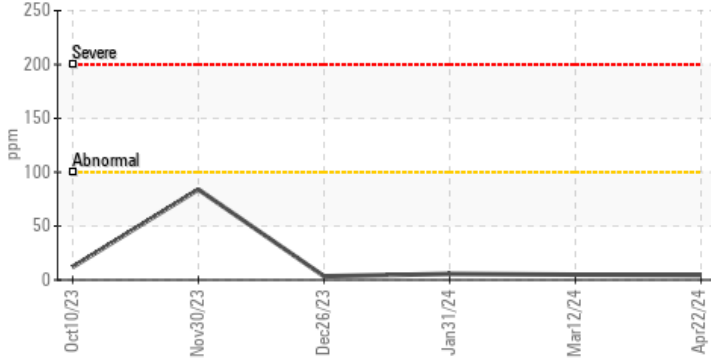


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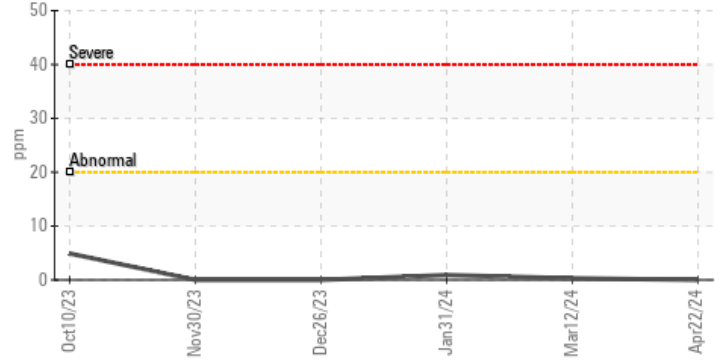


GRAPHS

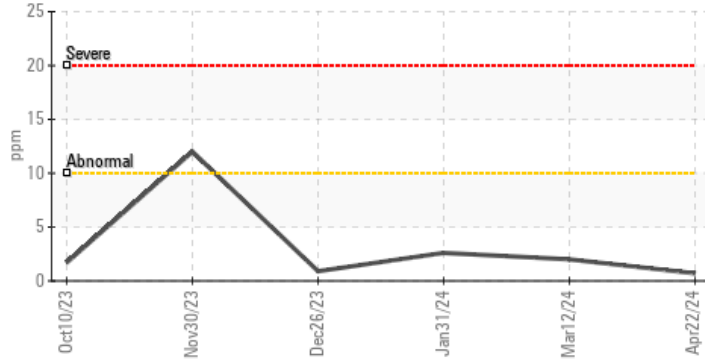
Iron (ppm)



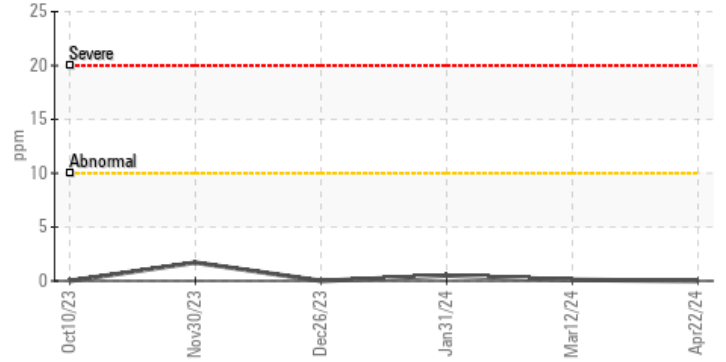
Lead (ppm)



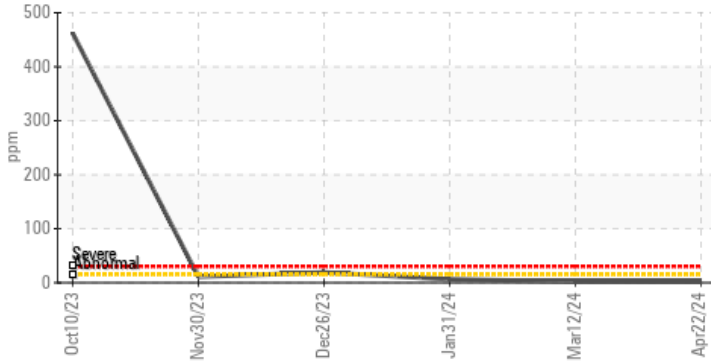
Aluminum (ppm)



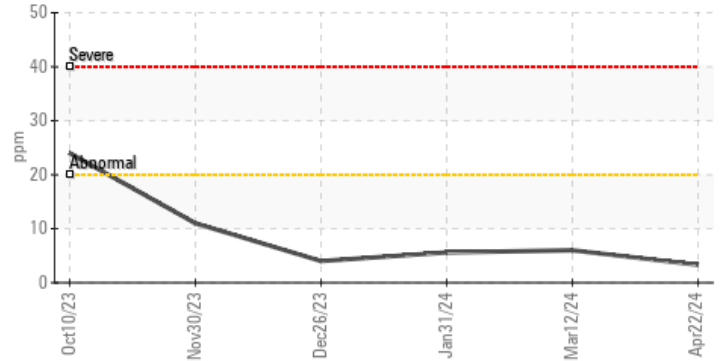
Chromium (ppm)



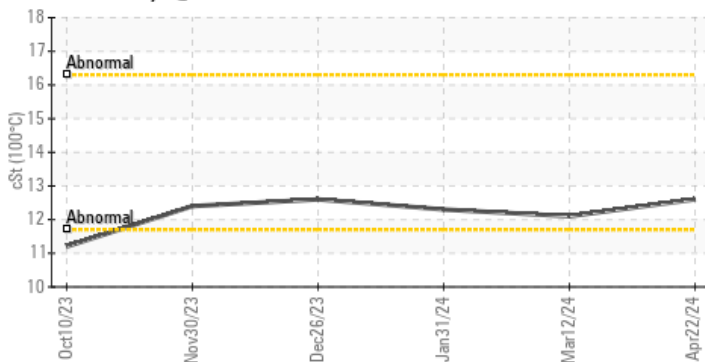
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

