



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 3068 - DIESEL ENGINE



Sample No: VCP400162
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP400162	VCP402494	VCP384997	VCP382524
Sample Date	12 Oct 2023	18 Apr 2023	06 Feb 2023	04 Jan 2023
Machine Hours	11271	10797	10014	9582
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.2	12.8	13.1	13.0
Base Number (BN)	mg KOH/g	9.1	7.3	8.4	8.7
Oxidation (PA)	%	61	64	60	59



CONTAMINATION

Soot %	%	0.3	0.3	0.2	0.3
Nitration (PA)	%	58	68	65	60
Sulfation (PA)	%	54	56	53	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	3	4
Sodium	ppm	1	1	2	0
Potassium	ppm	0	0	<1	1



WEAR METALS

Iron	ppm	6	5	3	4
Copper	ppm	4	<1	1	1
Lead	ppm	<1	0	1	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	63	71	76	62
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1136	1158	1238	1347
Magnesium	ppm	981	954	877	873
Zinc	ppm	1287	1277	1202	1350
Phosphorus	ppm	1040	981	940	1006
Barium	ppm	0	0	0	0
Boron	ppm	6	7	29	18

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: 10699587
Signed: Wes Davis
Report Date: 19 Oct 2023

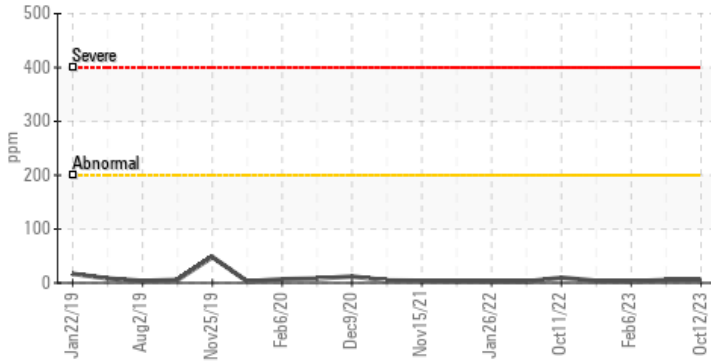


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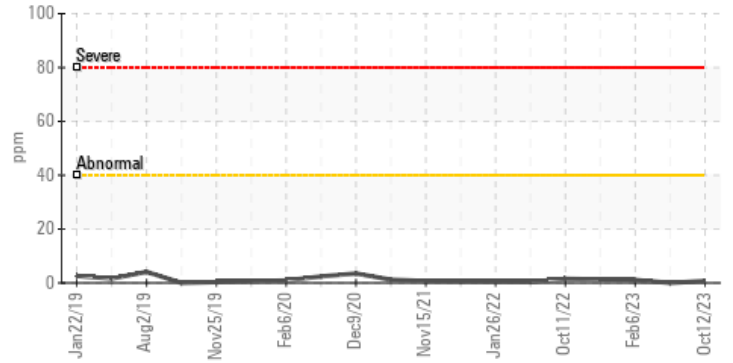


GRAPHS

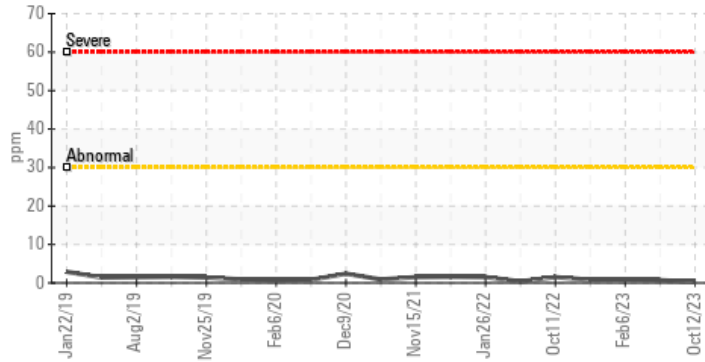
Iron (ppm)



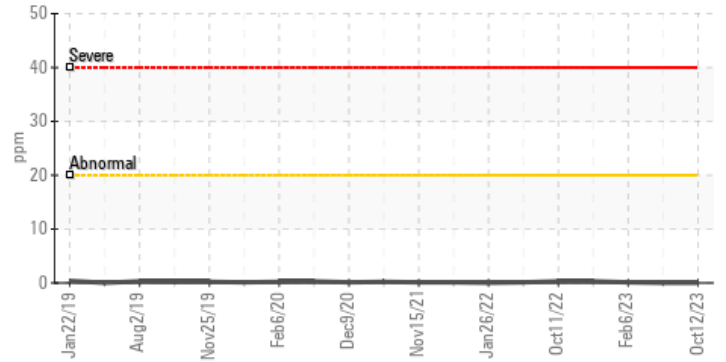
Lead (ppm)



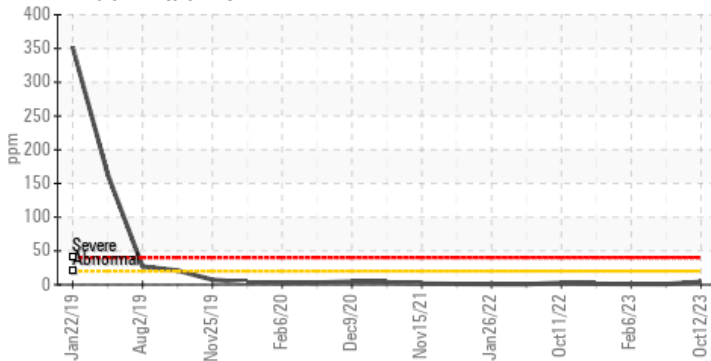
Aluminum (ppm)



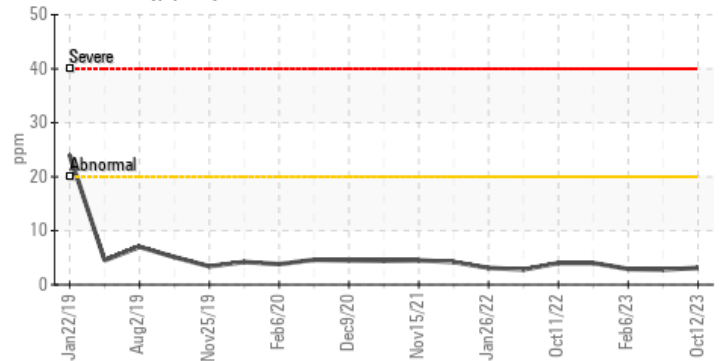
Chromium (ppm)



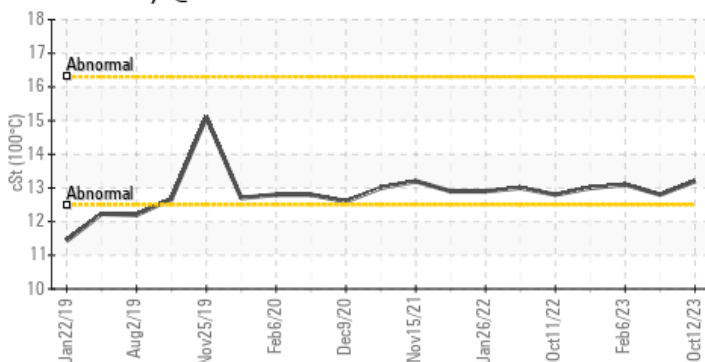
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

