



CONSTRUCTION EQUIPMENT

VOLVO L150F 14205 - DIESEL ENGINE



Sample No: VCP433630
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP433630	VCP416163	VCP312516	VCP312541
Sample Date	27 Mar 2024	07 Feb 2024	05 Dec 2023	24 Oct 2023
Machine Hours	25811	25574	25304	25033
Oil Hours	237	270	271	271
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	13.1	13.0
Base Number (BN)	mg KOH/g	8.5	7.9	7.5	8.5
Oxidation (PA)	%	69	67	64	68

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	61	63	66	63
Sulfation (PA)	%	55	54	52	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	4
Sodium	ppm	2	3	2	5
Potassium	ppm	1	2	2	2



WEAR METALS

Iron	ppm	3	3	3	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	3	4	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	89	88	125	118
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	<1	<1	<1	<1

Diagnosis



ADDITIVES

Calcium	ppm	1386	1204	1373	1643
Magnesium	ppm	572	528	696	759
Zinc	ppm	814	783	916	1093
Phosphorus	ppm	686	631	766	919
Barium	ppm	0	34	11	<1
Boron	ppm	113	87	130	111

Depot: SCHGRE
Unique No: 10963037
Signed: Wes Davis
Report Date: 04 Apr 2024

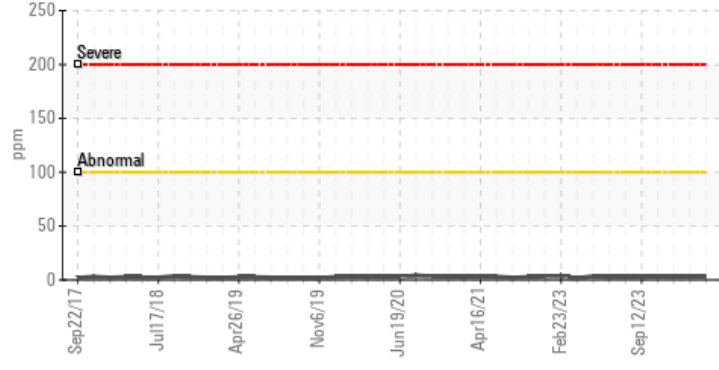


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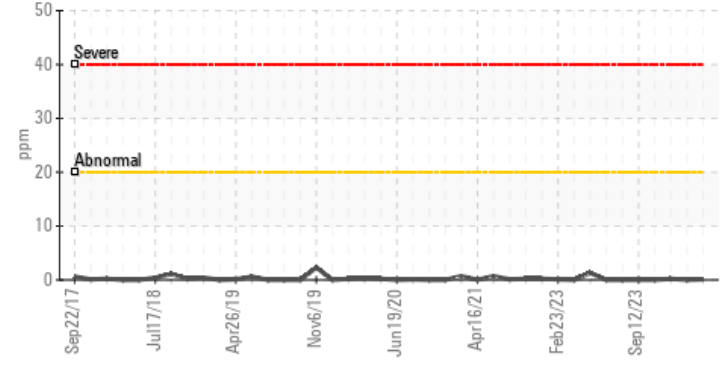


GRAPHS

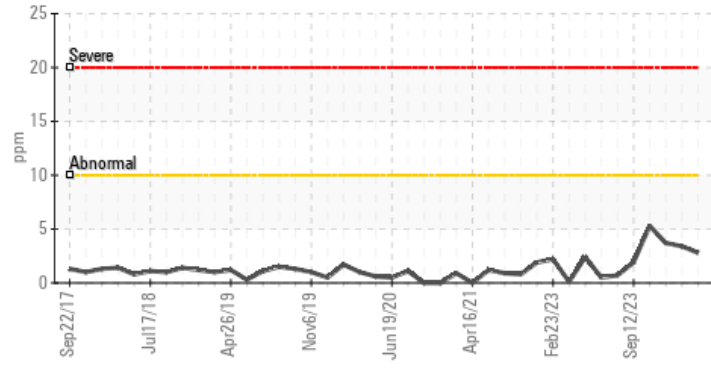
Iron (ppm)



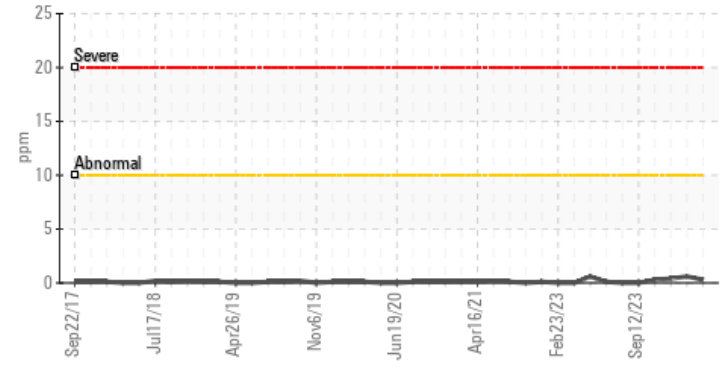
Lead (ppm)



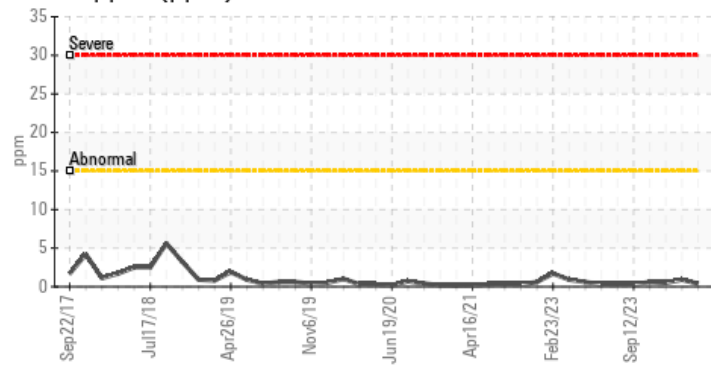
Aluminum (ppm)



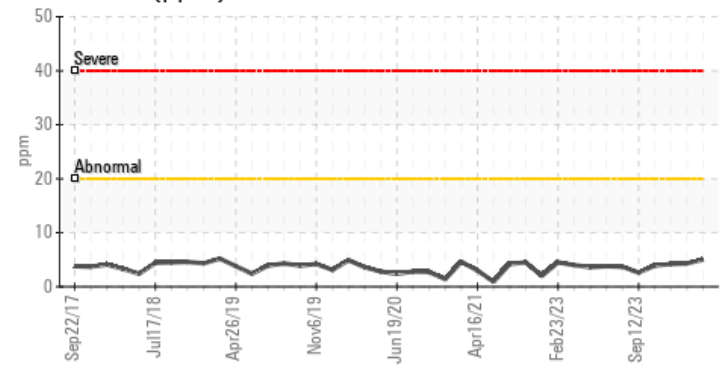
Chromium (ppm)



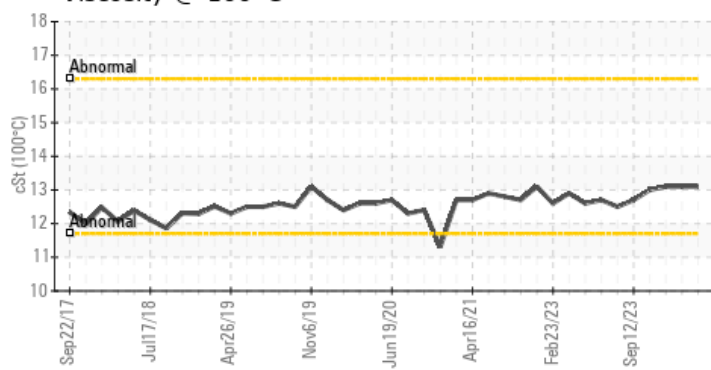
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

