



CONSTRUCTION EQUIPMENT

VOLVO L150F 14205 - DIESEL ENGINE



Sample No: VCP435447
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP435447	VCP433630	VCP416163	VCP312516
Sample Date	08 May 2024	27 Mar 2024	07 Feb 2024	05 Dec 2023
Machine Hours	26009	25811	25574	25304
Oil Hours	198	237	270	271
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

Visc @ 100°C	cSt	12.8	13.1	13.1	13.1
Base Number (BN)	mg KOH/g	9.4	8.5	7.9	7.5
Oxidation (PA)	%	74	69	67	64

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	53	61	63	66
Sulfation (PA)	%	58	55	54	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	4
Sodium	ppm	1	2	3	2
Potassium	ppm	2	1	2	2



WEAR METALS

Iron	ppm	2	3	3	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	3	3	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	57	89	88	125
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	1531	1386	1204	1373
Magnesium	ppm	504	572	528	696
Zinc	ppm	881	814	783	916
Phosphorus	ppm	788	686	631	766
Barium	ppm	0	0	34	11
Boron	ppm	76	113	87	130

Depot: SCHGRE
Unique No: 11032242
Signed: Wes Davis
Report Date: 16 May 2024

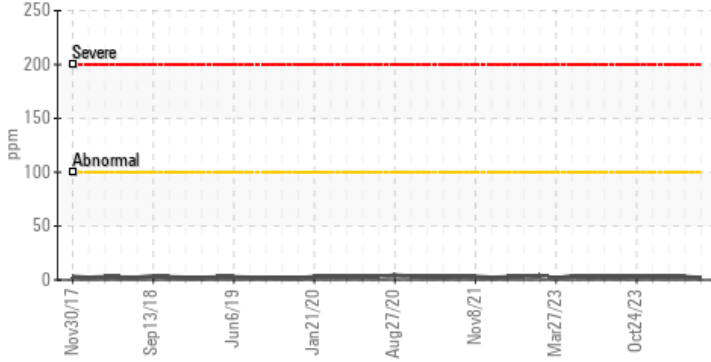


CONSTRUCTION EQUIPMENT

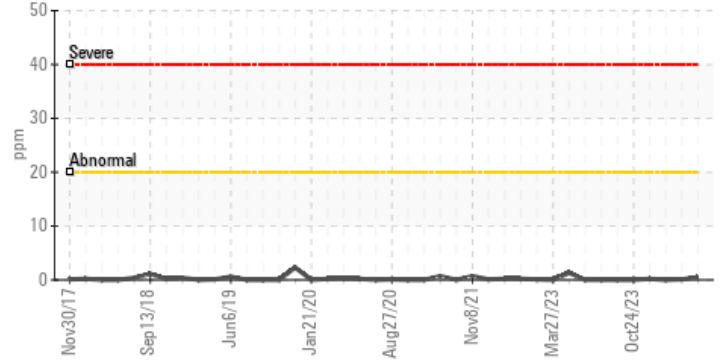


GRAPHS

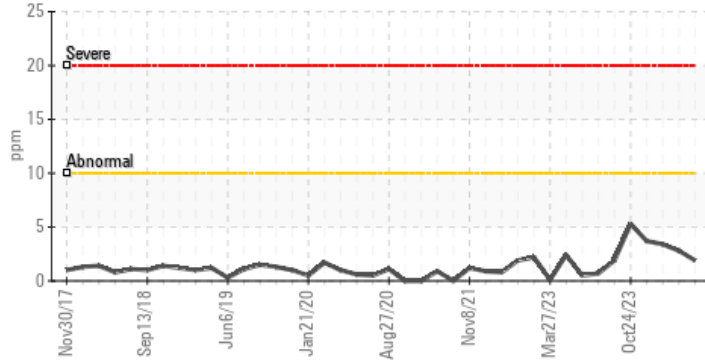
Iron (ppm)



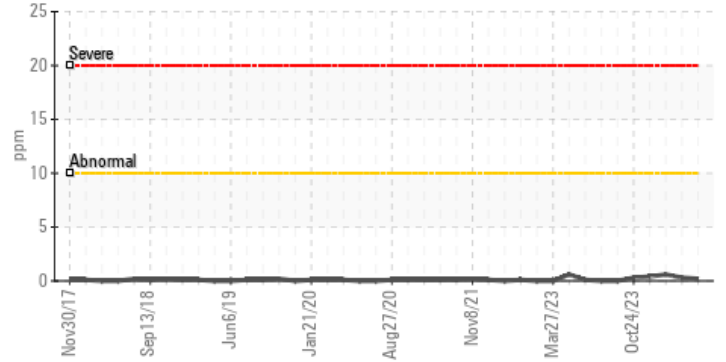
Lead (ppm)



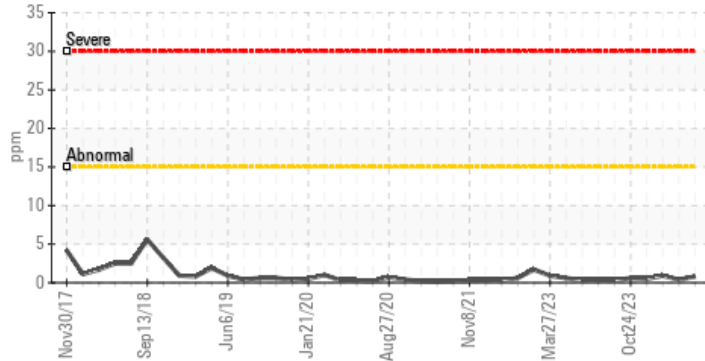
Aluminum (ppm)



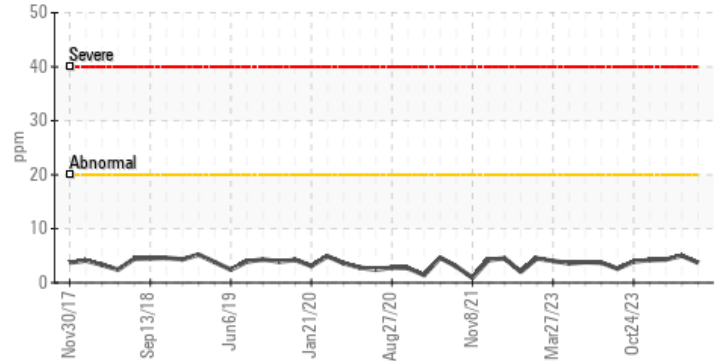
Chromium (ppm)



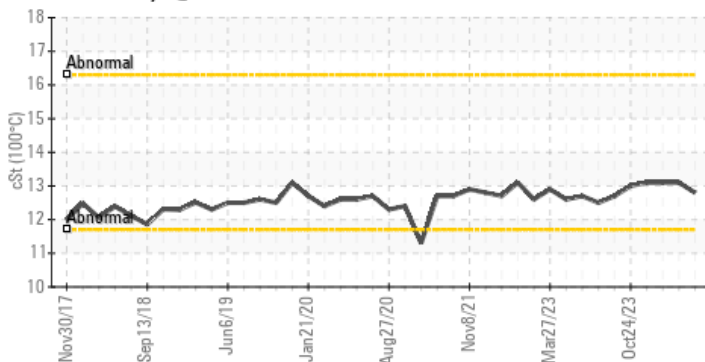
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

