



CONSTRUCTION EQUIPMENT

9941 VOLVO L70G 614340 - DIESEL ENGINE



Sample No: VCP388544
Oil Type: CHEVRON 15W40
Job No: 9941



SAMPLE INFORMATION

Sample Number	VCP388544	VCP407901	VCP384273	VCP344949
Sample Date	20 Nov 2023	29 Jun 2023	14 Nov 2022	22 Feb 2022
Machine Hours	12078	11650	11208	10501
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RELIABLE CONTRACTING
 2410 EVERGREEN RD SUITE 200
 GAMBRILLS, MD
 US 21054
 Contact: RUSSELL HATFIELD
 RHATFIELD@RELIABLECONTRACTING.COM
 T: (410)987-1851
 F:



OIL CONDITION

Visc @ 100°C	cSt	13.2	13.2	12.7	13.0
Base Number (BN)	mg KOH/g	7.4	8.3	9.2	9.9
Oxidation (PA)	%	59	61	69	70

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	0.2	0.2	0.1
Nitration (PA)	%	50	60	68	62
Sulfation (PA)	%	58	59	65	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	7	7
Sodium	ppm	1	0	0	1
Potassium	ppm	2	1	0	<1



WEAR METALS

Iron	ppm	7	9	12	0
Copper	ppm	0	<1	<1	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	5	4	6	6
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	80	97	128	125
Nickel	ppm	<1	<1	0	0
Titanium	ppm	3	2	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1376	1452	1603	1624
Magnesium	ppm	392	427	677	709
Zinc	ppm	1263	1181	836	978
Phosphorus	ppm	1130	1004	761	808
Barium	ppm	0	0	0	0
Boron	ppm	404	445	323	352

Depot: RELMIL
Unique No: 10756819
Signed: Wes Davis
Report Date: 28 Nov 2023

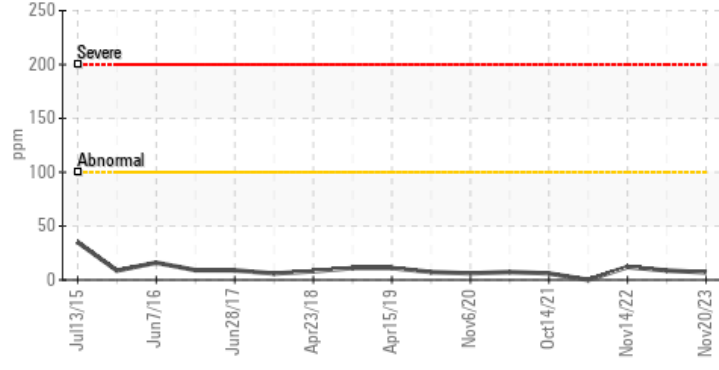


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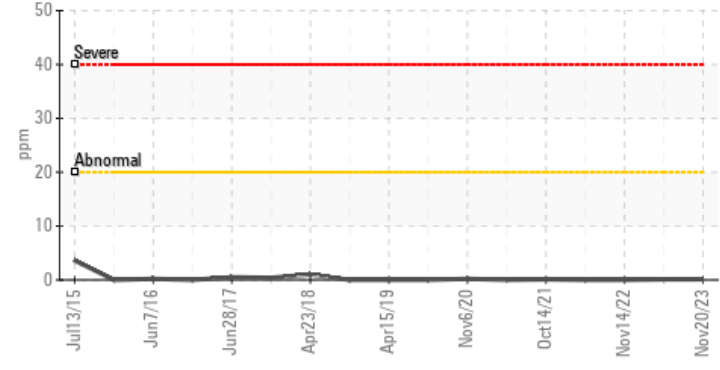


GRAPHS

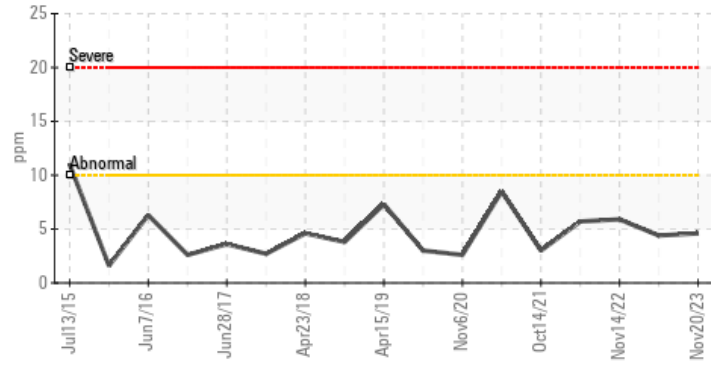
Iron (ppm)



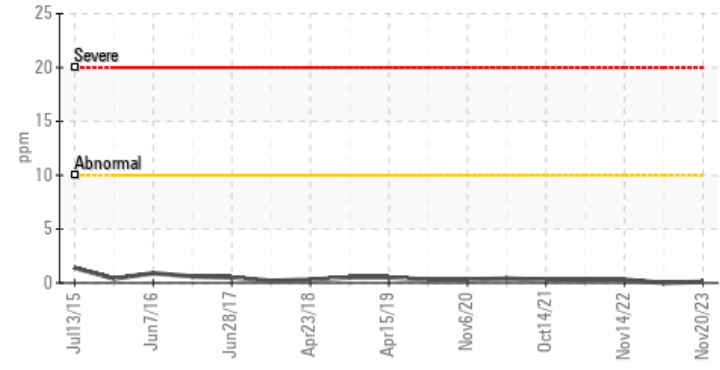
Lead (ppm)



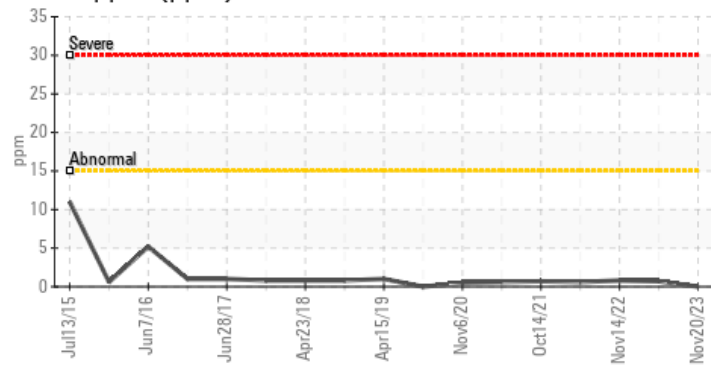
Aluminum (ppm)



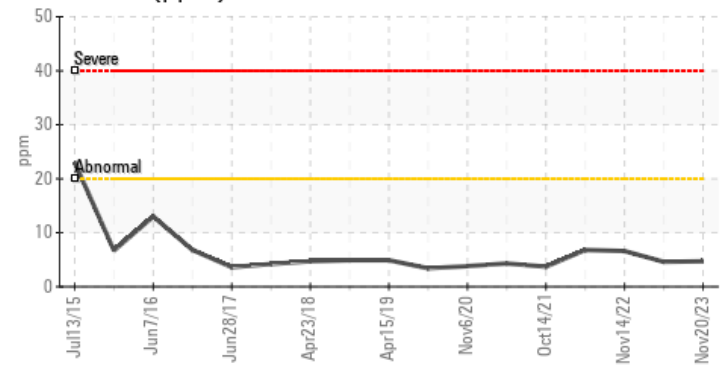
Chromium (ppm)



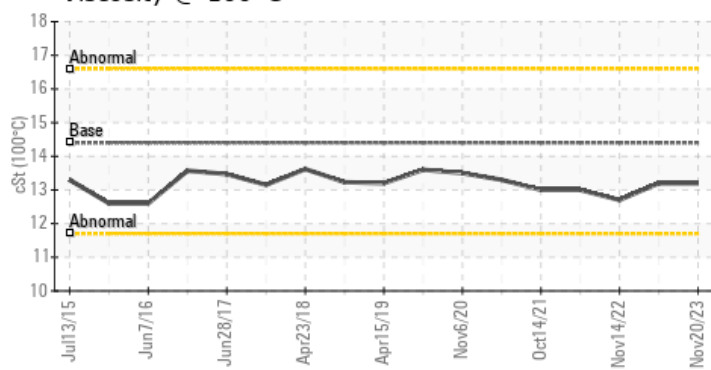
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

