



CONSTRUCTION EQUIPMENT

VOLVO A40G 342373 - DIESEL ENGINE



Sample No: VCP436351
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP436351	VCP445743	VCP398089	VCP341878
Sample Date	08 Feb 2024	29 Nov 2023	30 Oct 2023	09 Oct 2023
Machine Hours	12572	12310	12103	11957
Oil Hours	12572	207	146	312
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.9	13.0	12.8
Base Number (BN)	mg KOH/g	7.5	7.0	7.6	7.2
Oxidation (PA)	%	58	59	58	63

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 %	%	0.2	0.2	0.1	0.2
Nitration (PA)	%	70	68	65	65
Sulfation (PA)	%	49	49	50	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	4	6	5
Sodium	ppm	6	9	5	6
Potassium	ppm	7	7	4	5



WEAR METALS

Iron	ppm	3	3	<1	3
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	3	7	5	7
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	121	131	115	100
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1220	1289	1290	1355
Magnesium	ppm	634	686	693	609
Zinc	ppm	852	897	909	879
Phosphorus	ppm	747	726	735	750
Barium	ppm	12	0	0	0
Boron	ppm	128	142	125	86

Depot: SCHGRE
Unique No: 10876042
Signed: Sean Felton
Report Date: 15 Feb 2024

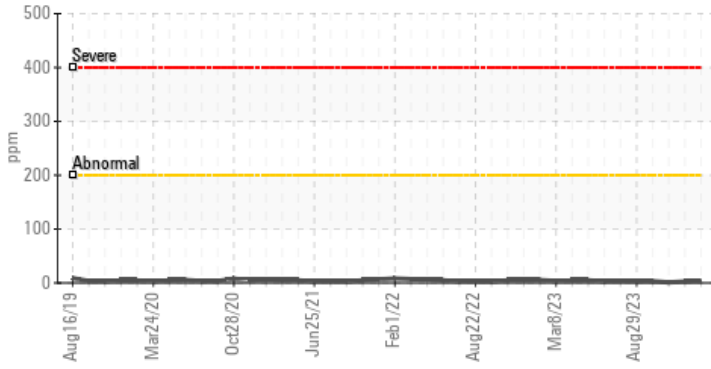


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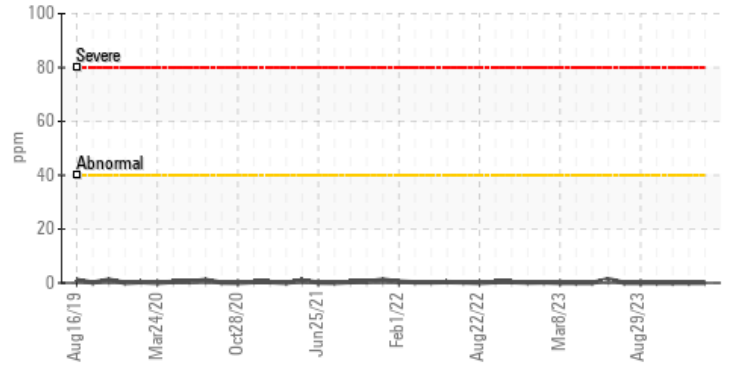


GRAPHS

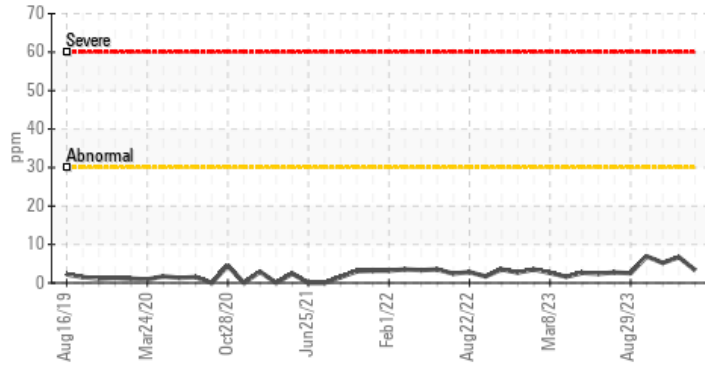
Iron (ppm)



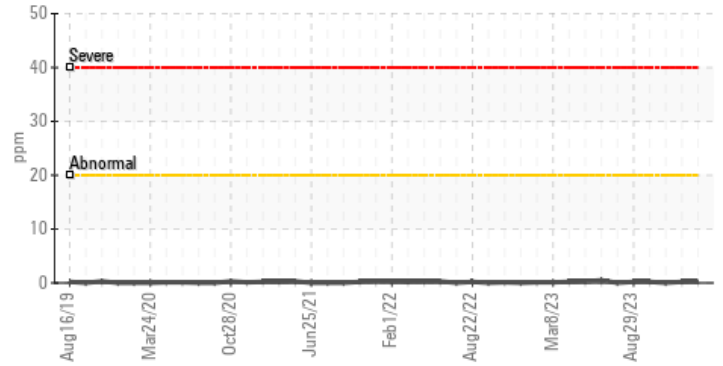
Lead (ppm)



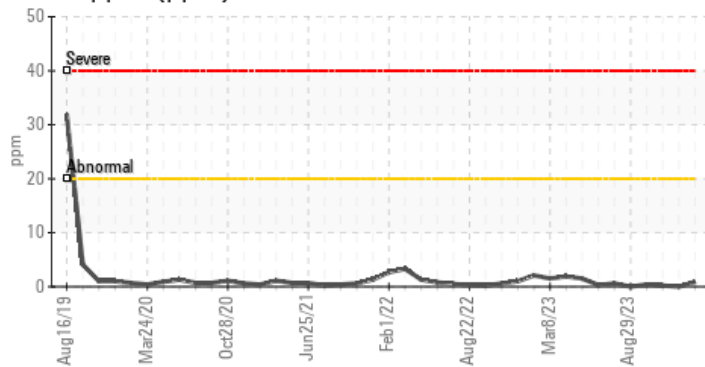
Aluminum (ppm)



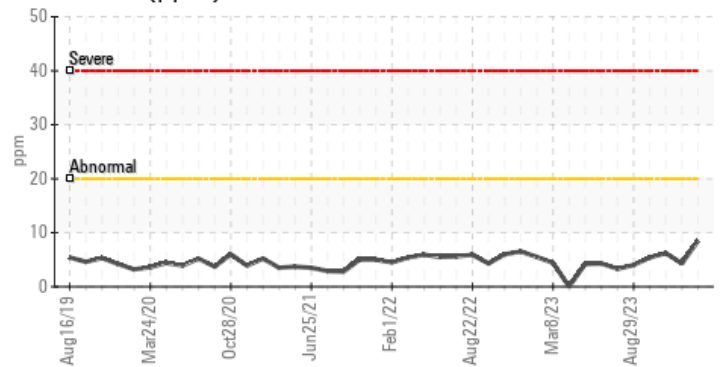
Chromium (ppm)



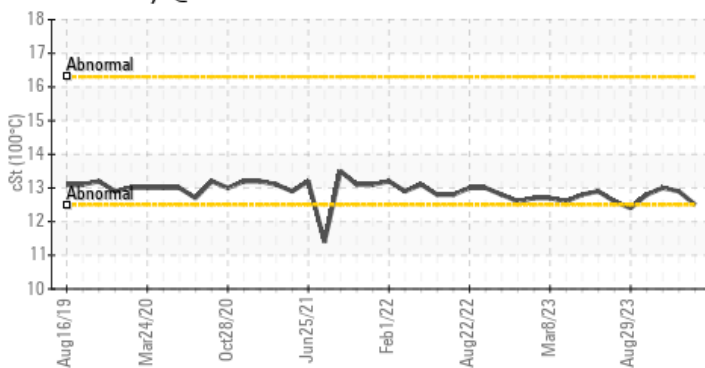
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

