



CONSTRUCTION EQUIPMENT

VOLVO A40G 341462 - DIESEL ENGINE



Sample No: VCP339738
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP339738	VCP312563	VCP396751	VCP379366
Sample Date	10 Oct 2023	01 Sep 2023	26 Jul 2023	26 Jun 2023
Machine Hours	16887	16607	16335	16177
Oil Hours	280	272	158	271
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.6	12.7	12.8
Base Number (BN)	mg KOH/g	7.4	10.1	9.8	9.8
Oxidation (PA)	%	64	81	76	84

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

Soot %	%	0.1	0.2	0.1	0.2
Nitration (PA)	%	63	52	47	52
Sulfation (PA)	%	51	61	58	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	5
Sodium	ppm	2	<1	2	2
Potassium	ppm	<1	<1	1	<1



WEAR METALS

Iron	ppm	2	3	2	3
Copper	ppm	0	<1	<1	0
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	4	2	<1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	100	42	39	39
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1362	1652	1755	1723
Magnesium	ppm	614	473	527	511
Zinc	ppm	891	917	909	948
Phosphorus	ppm	753	745	756	780
Barium	ppm	0	0	0	0
Boron	ppm	92	46	52	51

Depot: SCHGRE
Unique No: 10700648
Signed: Wes Davis
Report Date: 20 Oct 2023

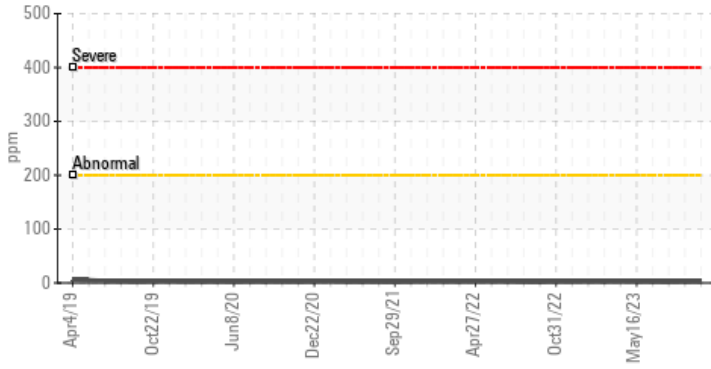


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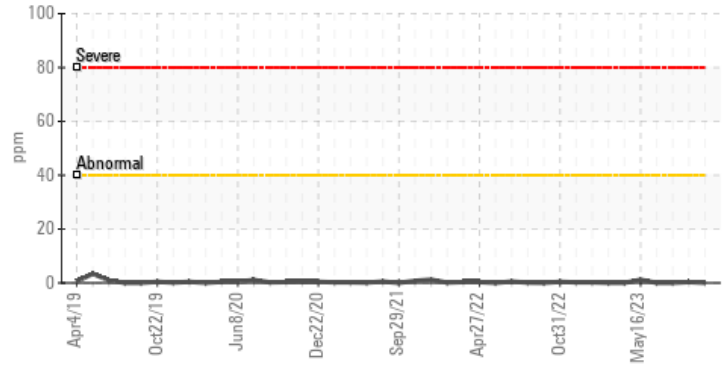


GRAPHS

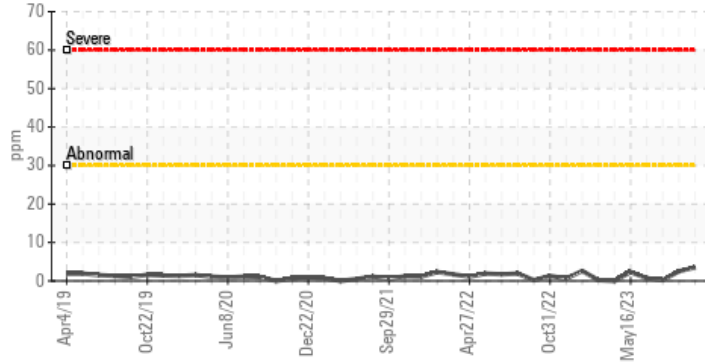
Iron (ppm)



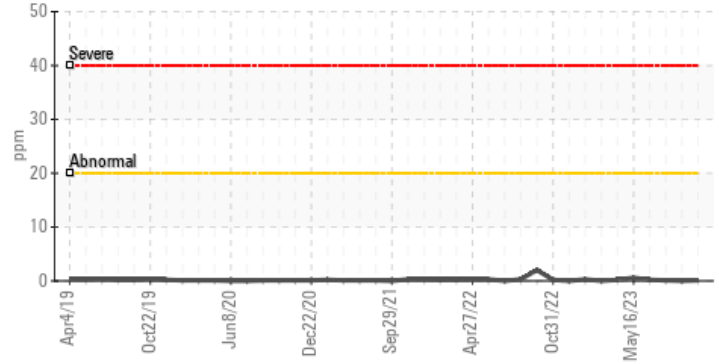
Lead (ppm)



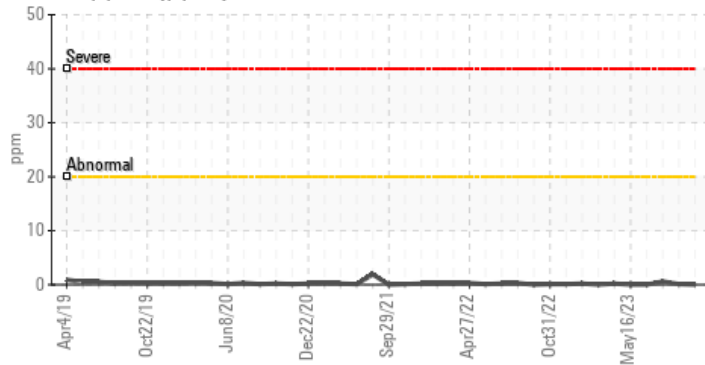
Aluminum (ppm)



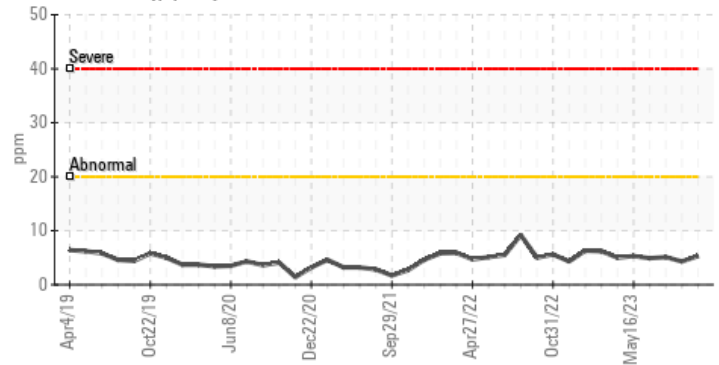
Chromium (ppm)



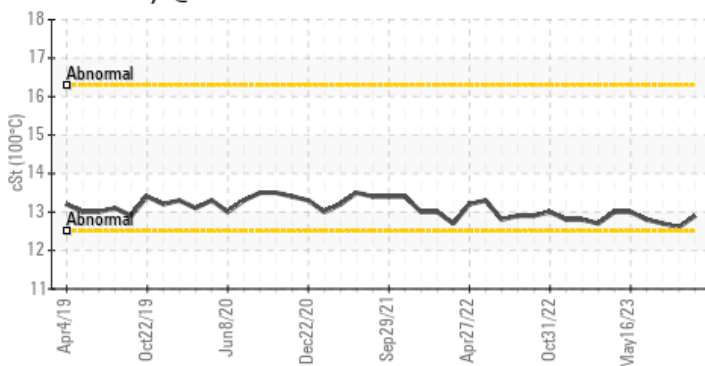
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

