CONSTRUCTION EQUIPMENT
VOLVO A40G 342373 - DIESEL ENGINE

Sample No: VCP441992
Oil Type: MOBIL 15W40
Job No:

SCHILDBERG CONSTRUCTION COMPANY
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US 50849
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SAMPLE INFORMATION

Sample Number		**VCP441992**	VCP445785	VCP399420	VCP436351
Sample Date		**10 Jun 2024**	15 Apr 2024	12 Mar 2024	08 Feb 2024
Machine Hours		**13342**	12958	12715	12572
Oil Hours		**384**	243	143	12572
Oil Changed		**Changed**	Changed	Changed	Changed
Sample Status		**NORMAL**	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 100°C	cSt	**12.6**	12.6	13.1	12.5
Base Number (BN)	mg KOH/g	**9.8**	9.8	8.4	7.5
Oxidation (PA)	%	**78**	76	63	58

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Soot %	%	**0.3**	0.2	0.2	0.2
Nitration (PA)	%	**59**	52	58	70
Sulfation (PA)	%	**60**	59	52	49
Glycol	%	**NEG**	NEG	NEG	NEG
Fuel	%	**<1.0**	<1.0	<1.0	<1.0
Silicon	ppm	**5**	4	4	8
Sodium	ppm	**8**	8	7	6
Potassium	ppm	**4**	4	5	7

WEAR METALS

Iron	ppm	**5**	4	3	3
Copper	ppm	**<1**	<1	2	<1
Lead	ppm	**0**	0	<1	0
Tin	ppm	**0**	2	<1	0
Aluminum	ppm	**3**	2	5	3
Chromium	ppm	**0**	<1	<1	<1
Molybdenum	ppm	**42**	46	94	121
Nickel	ppm	**0**	2	2	<1
Titanium	ppm	**0**	<1	<1	<1
Silver	ppm	**0**	0	0	0
Manganese	ppm	**<1**	<1	<1	0
Vanadium	ppm	**0**	<1	<1	0

ADDITIVES

Calcium	ppm	**1696**	1731	1363	1220
Magnesium	ppm	**488**	483	591	634
Zinc	ppm	**850**	865	848	852
Phosphorus	ppm	**764**	763	725	747
Barium	ppm	**0**	0	0	12
Boron	ppm	**48**	64	106	128

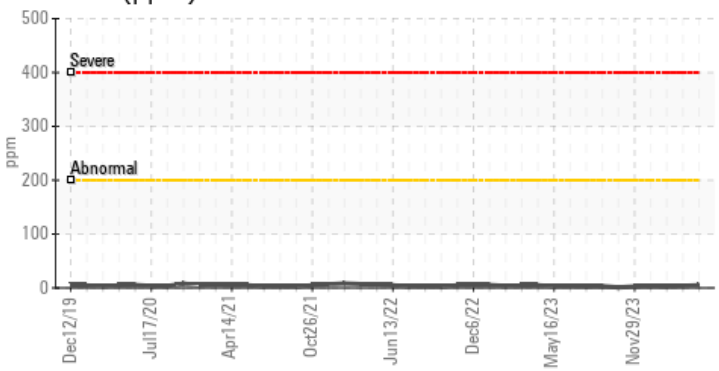
Diagnosis

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.

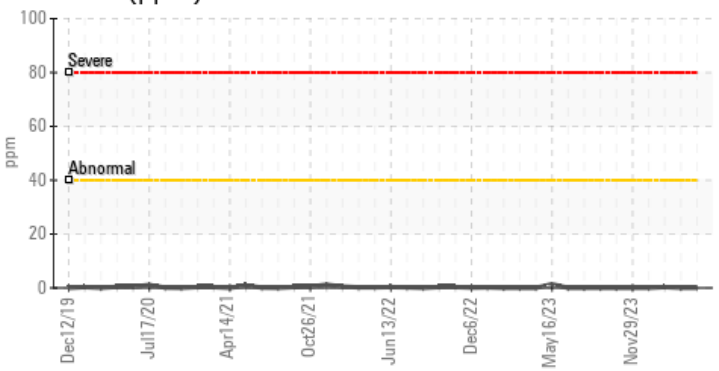
Depot: SCHGRE
Unique No: 11126351
Signed: Wes Davis
Report Date: 17 Jul 2024

GRAPHS

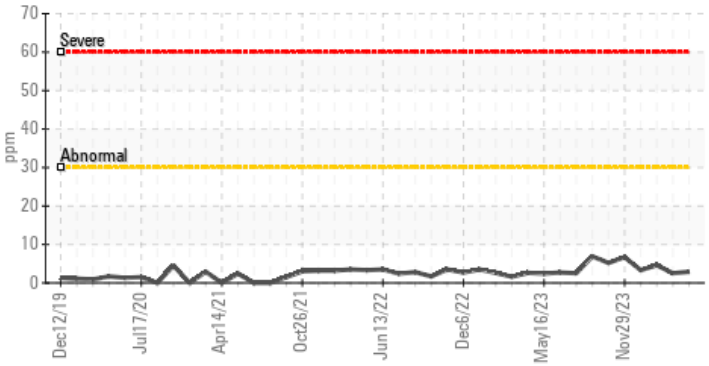
Iron (ppm)



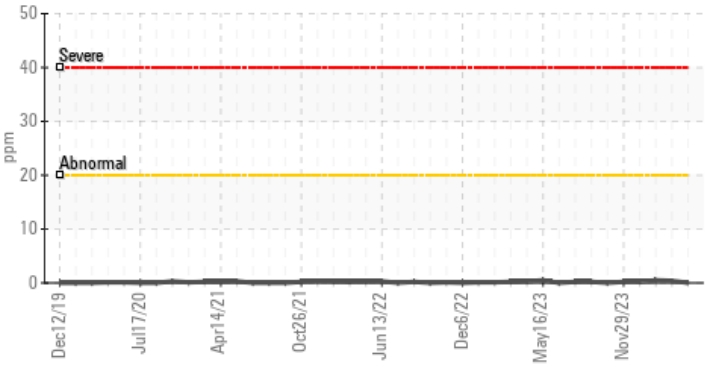
Lead (ppm)



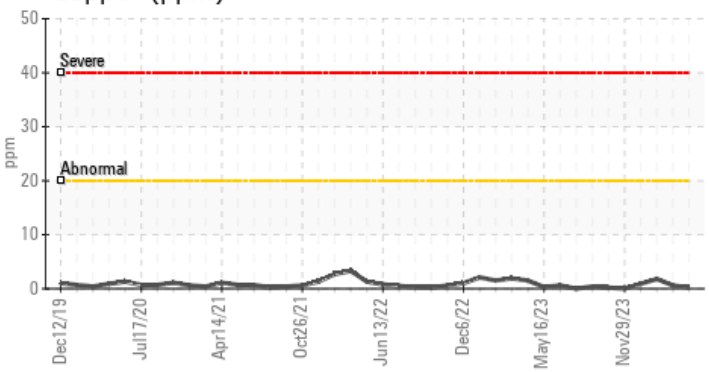
Aluminum (ppm)



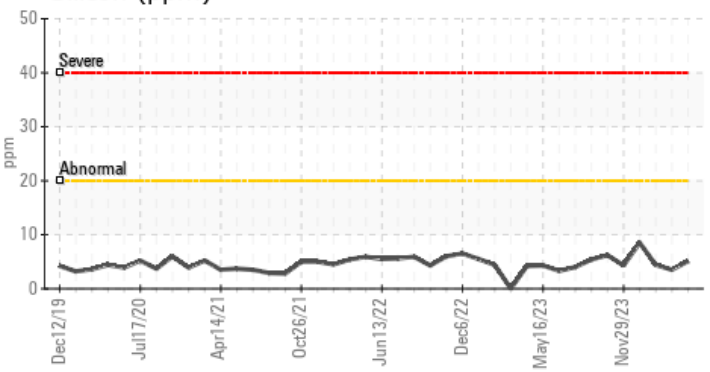
Chromium (ppm)



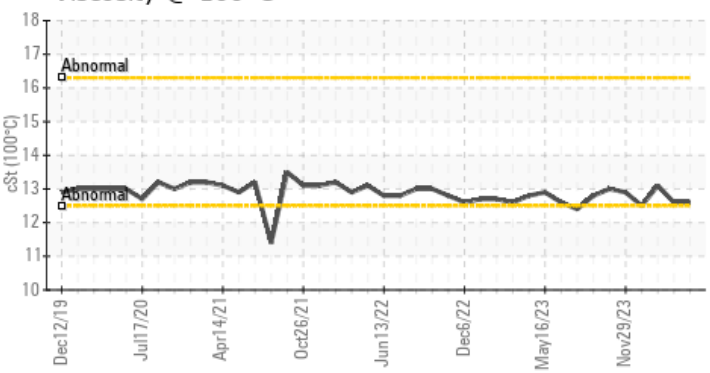
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number