



CONSTRUCTION EQUIPMENT

VOLVO A40G 342374 - DIESEL ENGINE



Sample No: VCP400060
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP400060	VCP384377	VCP404902	VCP406823
Sample Date	20 Jul 2023	07 Jun 2023	02 May 2023	22 Mar 2023
Machine Hours	10329	10123	9875	9609
Oil Hours	206	248	266	213
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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	12.6	12.6	12.8	12.5
Base Number (BN)	mg KOH/g	10.2	10.1	9.3	11.5
Oxidation (PA)	%	79	78	73	76

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	0.2	0.2
Nitration (PA)	%	49	50	49	59
Sulfation (PA)	%	60	61	55	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	4	<1
Sodium	ppm	6	14	48	223
Potassium	ppm	8	10	39	175



WEAR METALS

Iron	ppm	2	3	3	5
Copper	ppm	<1	1	4	11
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	<1	0	2	1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	42	39	42	50
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1666	1578	1781	1800
Magnesium	ppm	479	469	543	566
Zinc	ppm	883	870	913	997
Phosphorus	ppm	761	724	803	842
Barium	ppm	2	0	0	0
Boron	ppm	57	53	54	33

Depot: SCHGRE
Unique No: 10586114
Signed: Jonathan Hester
Report Date: 03 Aug 2023

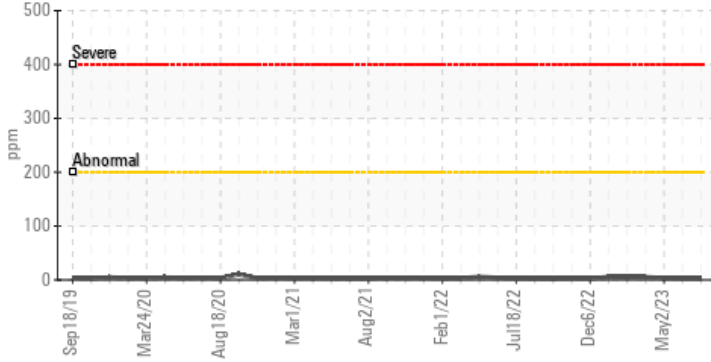


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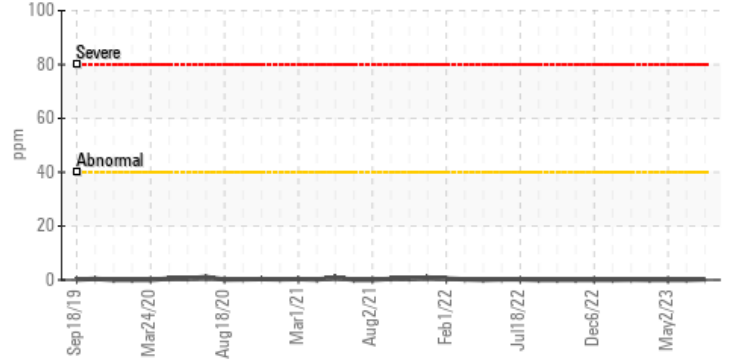


GRAPHS

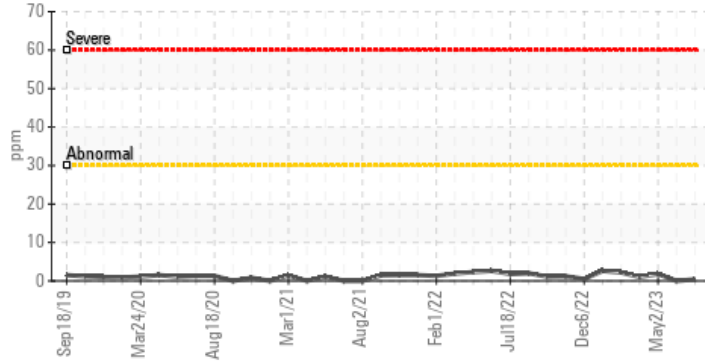
Iron (ppm)



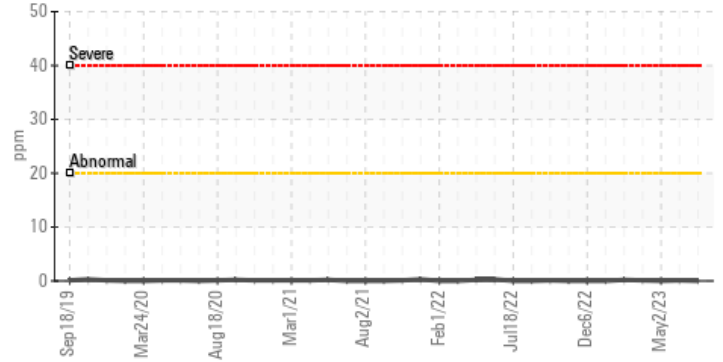
Lead (ppm)



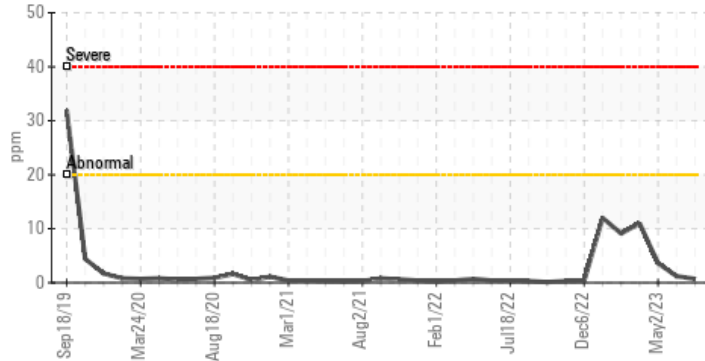
Aluminum (ppm)



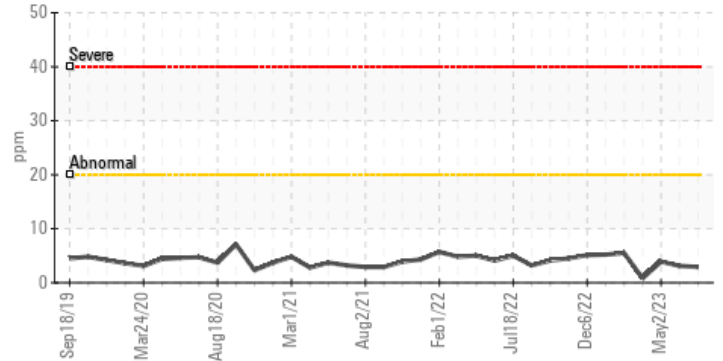
Chromium (ppm)



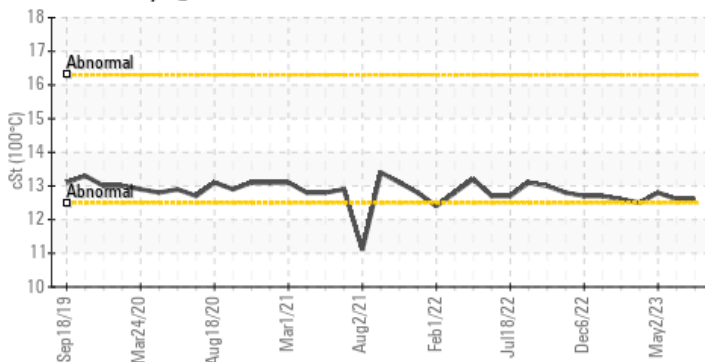
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

