



CONSTRUCTION EQUIPMENT

VOLVO A40G 340668 - DIESEL ENGINE



Sample No: VCP433631
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP433631	VCP416807	VCP312532	VCP405247
Sample Date	27 Mar 2024	08 Feb 2024	04 Dec 2023	24 Oct 2023
Machine Hours	17421	17181	16909	16708
Oil Hours	240	272	201	328
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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	13.2	13.4	13.2	13.3
Base Number (BN)	mg KOH/g	8.2	6.9	7.1	7.9
Oxidation (PA)	%	77	85	76	92

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 %	%	0.3	0.3	0.3	0.4
Nitration (PA)	%	83	99	91	93
Sulfation (PA)	%	60	64	60	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	18	16	16	10
Sodium	ppm	3	4	1	4
Potassium	ppm	3	3	3	3



WEAR METALS

Iron	ppm	12	17	11	9
Copper	ppm	<1	2	<1	<1
Lead	ppm	<1	1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	6	7	6	6
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	92	109	118	97
Nickel	ppm	<1	1	1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1468	1344	1366	1550
Magnesium	ppm	600	601	656	656
Zinc	ppm	870	882	903	1004
Phosphorus	ppm	741	683	751	810
Barium	ppm	0	34	11	<1
Boron	ppm	113	85	110	68

Depot: SCHGRE
Unique No: 10963036
Signed: Wes Davis
Report Date: 04 Apr 2024

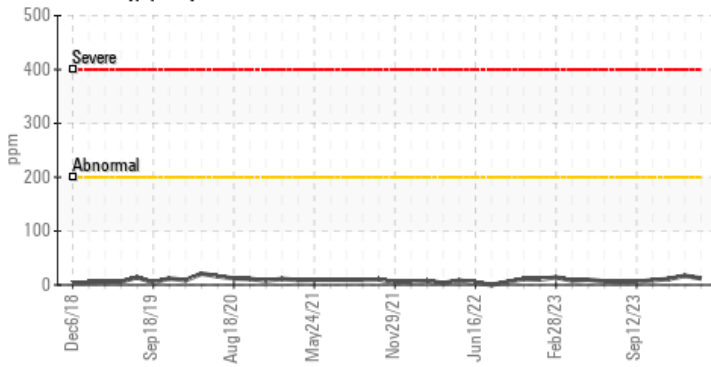


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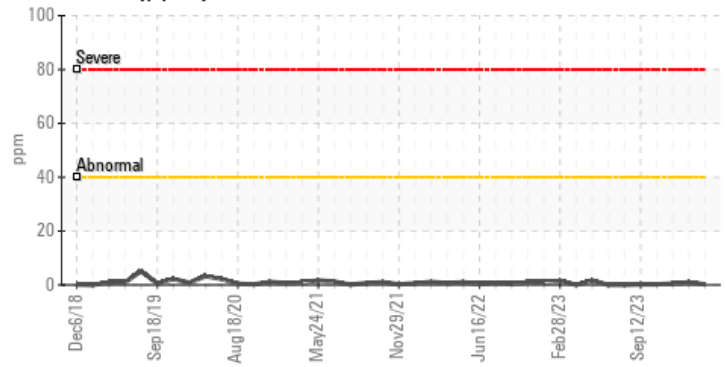


GRAPHS

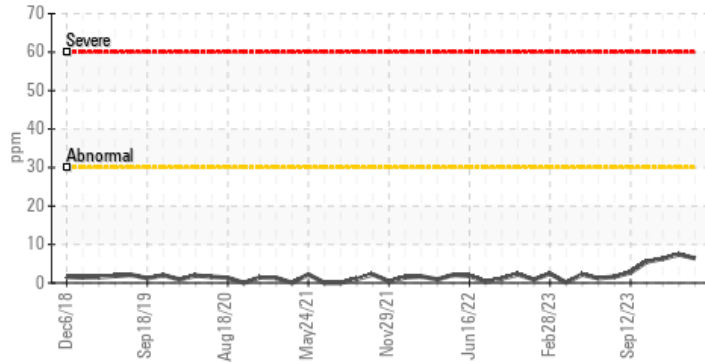
Iron (ppm)



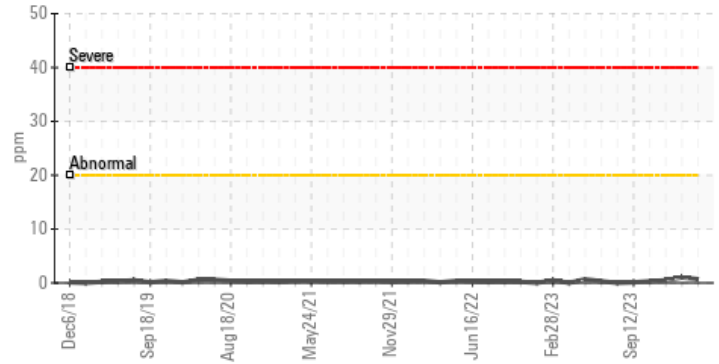
Lead (ppm)



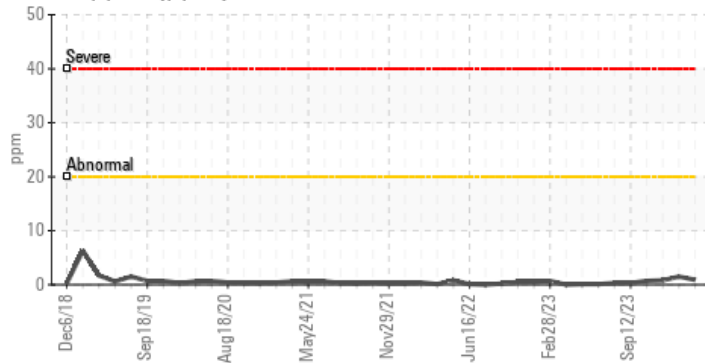
Aluminum (ppm)



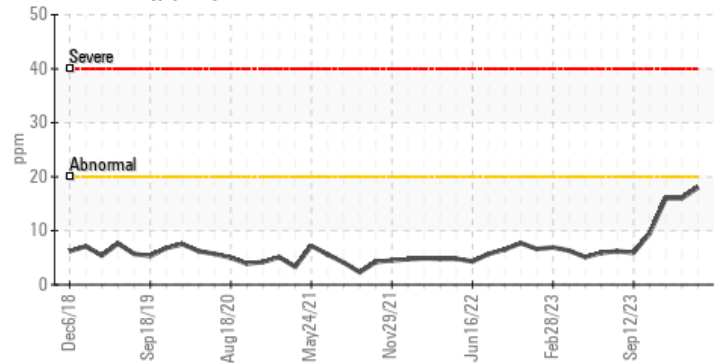
Chromium (ppm)



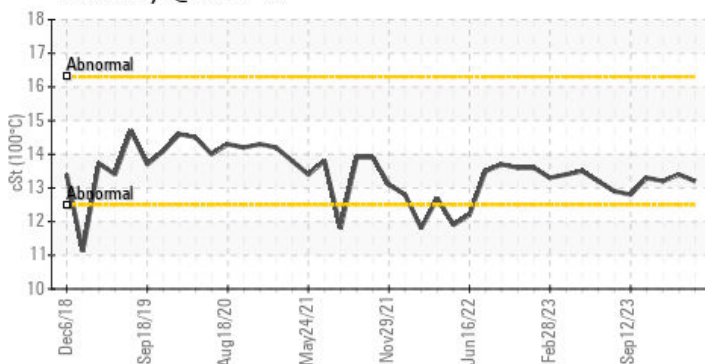
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

