



CONSTRUCTION EQUIPMENT

VOLVO A40F 1 1927 - DIESEL ENGINE



Sample No: VCP331522
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP331522	VCP312985	VCP312557	VCP312936
Sample Date	30 Jan 2024	14 Nov 2023	10 Oct 2023	01 Sep 2023
Machine Hours	25888	25567	25332	25041
Oil Hours	321	235	291	264
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.7	12.8	12.5
Base Number (BN)	mg KOH/g	6.8	7.3	6.0	10.4
Oxidation (PA)	%	58	59	61	79

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.3
Nitration (PA)	%	72	68	61	50
Sulfation (PA)	%	49	50	50	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	5	4
Sodium	ppm	3	2	2	<1
Potassium	ppm	2	0	1	<1



WEAR METALS

Iron	ppm	4	<1	2	3
Copper	ppm	<1	<1	0	<1
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	4	3	3	2
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	118	121	102	42
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1061	1306	1361	1671
Magnesium	ppm	578	701	618	480
Zinc	ppm	769	918	892	924
Phosphorus	ppm	618	718	759	752
Barium	ppm	34	0	0	0
Boron	ppm	106	131	101	51

Depot: SCHGRE
Unique No: 10898192
Signed: Don Baldrige
Report Date: 27 Feb 2024

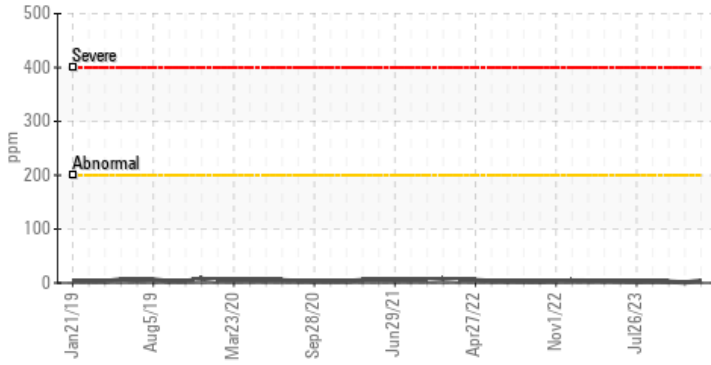


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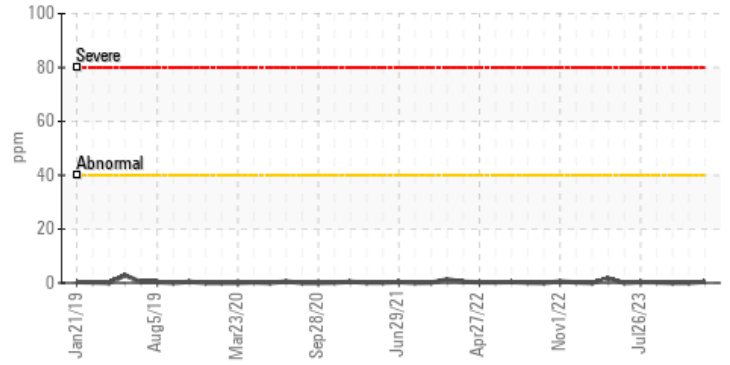


GRAPHS

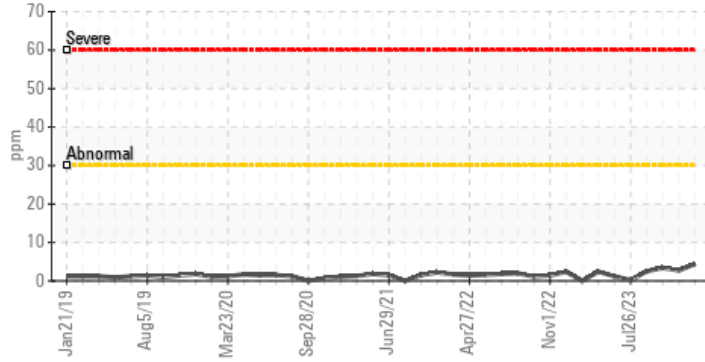
Iron (ppm)



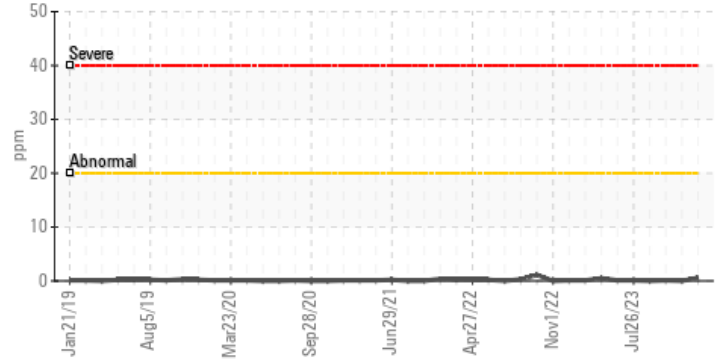
Lead (ppm)



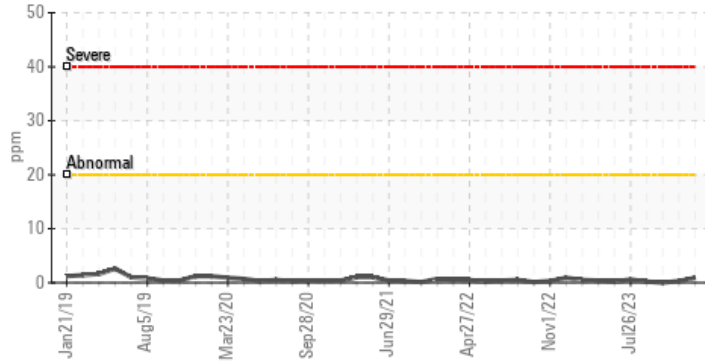
Aluminum (ppm)



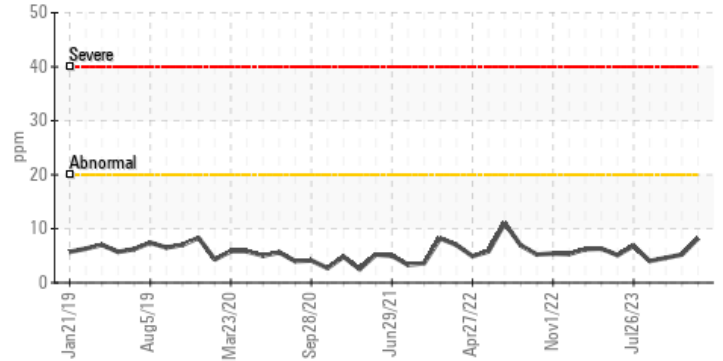
Chromium (ppm)



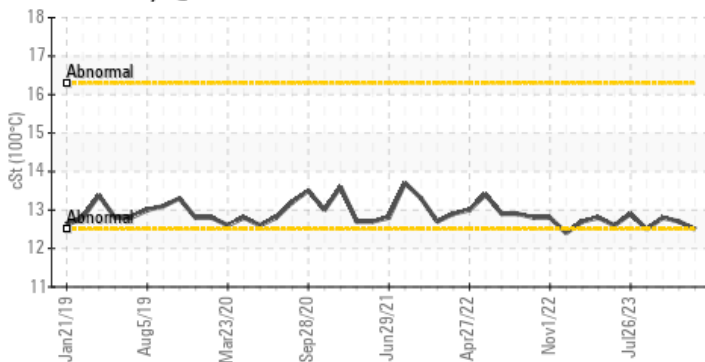
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

