



CONSTRUCTION EQUIPMENT

VOLVO A60H A60H 340126 - DIESEL ENGINE



Sample No: VCP440703
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP440703	VCP452426	VCP428903	VCP401982
Sample Date	13 Mar 2024	04 Mar 2024	03 Nov 2023	10 Apr 2023
Machine Hours	9320	9648	9145	8117
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.8	13.0	12.9
Base Number (BN)	mg KOH/g	10.5	9.8	10.1	9.5
Oxidation (PA)	%	76	79	81	74



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.4	0.6	0.2
Nitration (PA)	%	42	61	59	44
Sulfation (PA)	%	59	60	63	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	34	7	8
Sodium	ppm	3	11	14	5
Potassium	ppm	0	1	2	42



WEAR METALS

Iron	ppm	4	32	12	77
Copper	ppm	0	1	<1	23
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	<1	3
Aluminum	ppm	3	19	7	27
Chromium	ppm	0	<1	<1	3
Molybdenum	ppm	40	34	40	52
Nickel	ppm	0	1	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1694	1429	1750	1244
Magnesium	ppm	533	416	507	838
Zinc	ppm	1114	852	1008	1032
Phosphorus	ppm	966	826	935	813
Barium	ppm	0	0	0	0
Boron	ppm	63	50	41	11

Diagnosis

Resample at the next service interval to monitor. Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data. 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.

Depot: SAIBIR
Unique No: 10936197
Signed: Don Baldrige
Report Date: 21 Mar 2024

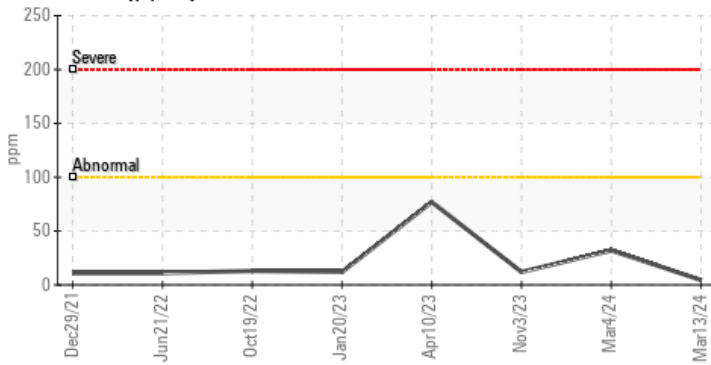


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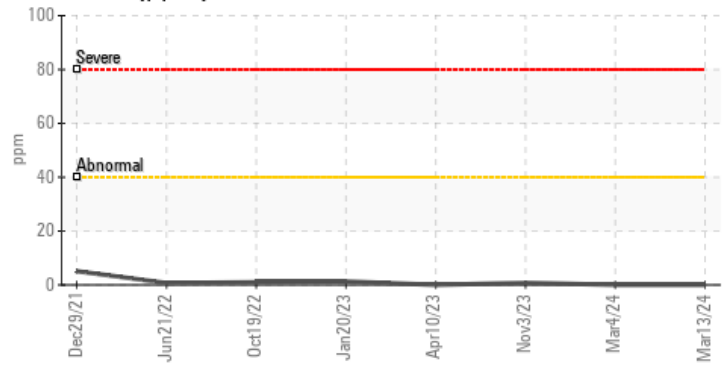


GRAPHS

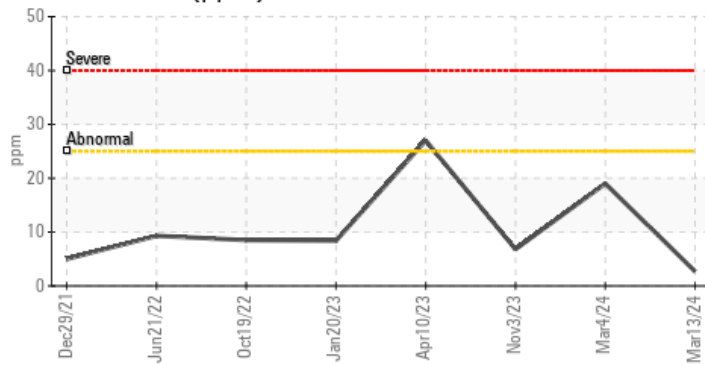
Iron (ppm)



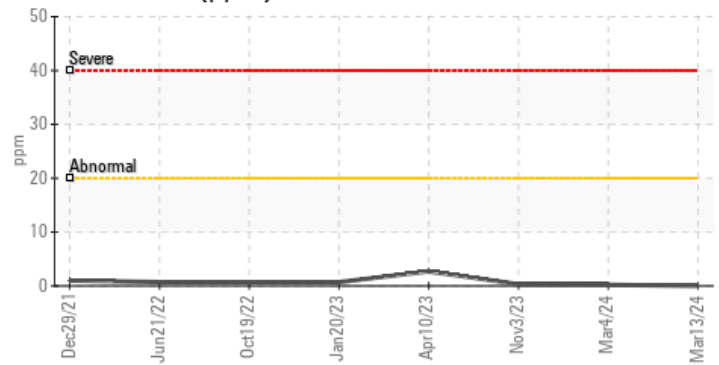
Lead (ppm)



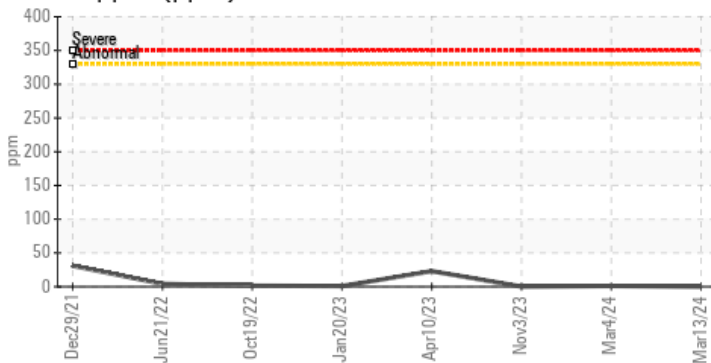
Aluminum (ppm)



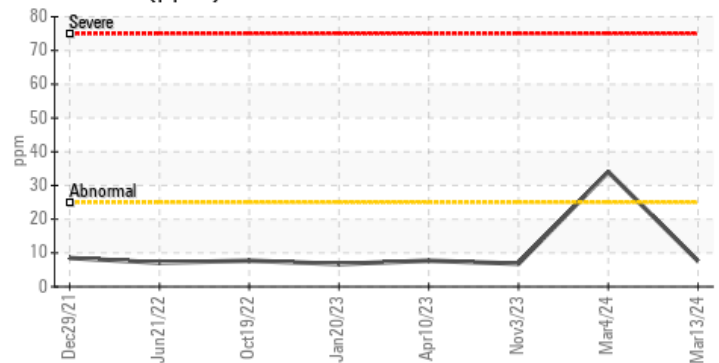
Chromium (ppm)



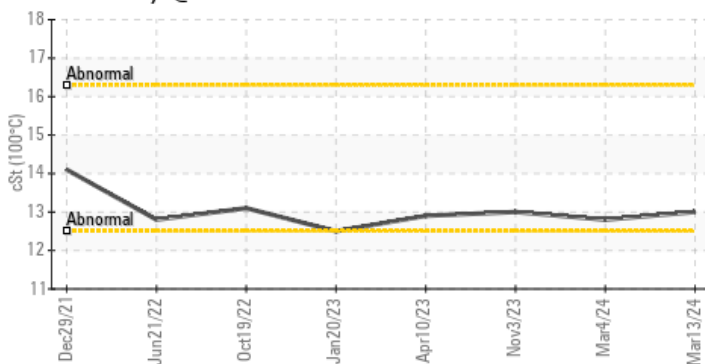
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

