



CONSTRUCTION EQUIPMENT

VOLVO A45G 352973 - DIESEL ENGINE



Sample No: VCP433864
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP433864	VCP426207	VCP404586	VCP405252
Sample Date	08 Nov 2023	24 Aug 2023	06 Jun 2023	21 Mar 2023
Machine Hours	3521	3044	2472	2001
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.5	12.8	12.1
Base Number (BN)	mg KOH/g	9.0	9.7	9.6	10.8
Oxidation (PA)	%	71	78	85	78

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 %	%	0.4	0.3	0.3	0.2
Nitration (PA)	%	62	59	59	56
Sulfation (PA)	%	57	60	62	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.4
Silicon	ppm	7	5	6	6
Sodium	ppm	0	<1	3	3
Potassium	ppm	1	<1	2	<1



WEAR METALS

Iron	ppm	11	7	10	7
Copper	ppm	4	<1	<1	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	1	2	1
Aluminum	ppm	1	1	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	49	42	43	41
Nickel	ppm	2	1	2	1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1436	1631	1715	1680
Magnesium	ppm	610	454	532	497
Zinc	ppm	1096	911	1192	1115
Phosphorus	ppm	939	756	978	947
Barium	ppm	0	0	0	2
Boron	ppm	27	34	50	69

Depot: SAIBIR
Unique No: 10750524
Signed: Sean Felton
Report Date: 21 Nov 2023

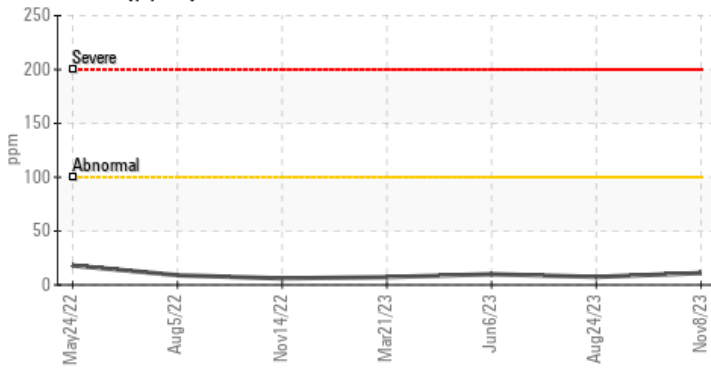


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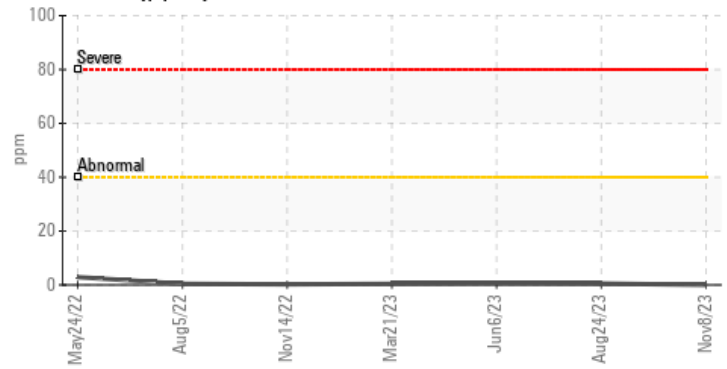


GRAPHS

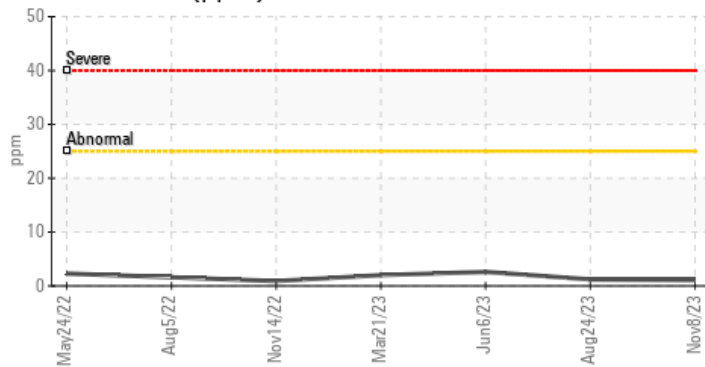
Iron (ppm)



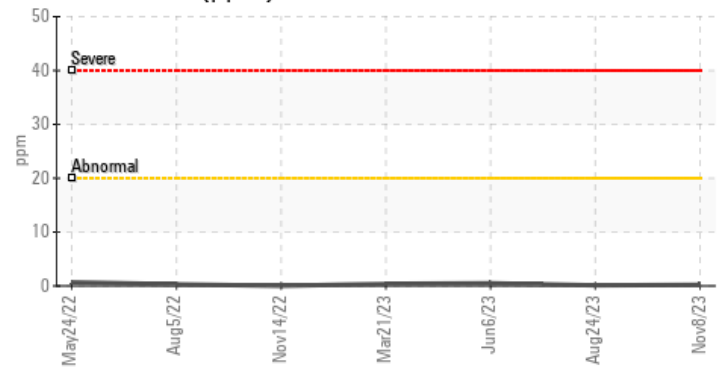
Lead (ppm)



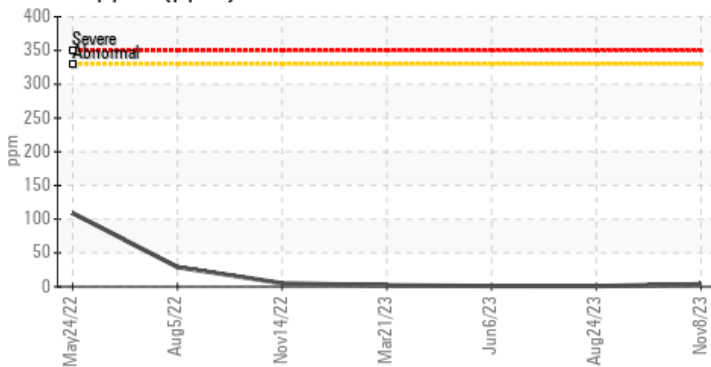
Aluminum (ppm)



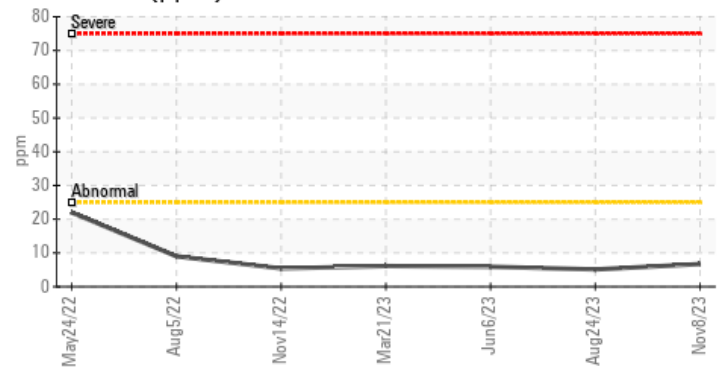
Chromium (ppm)



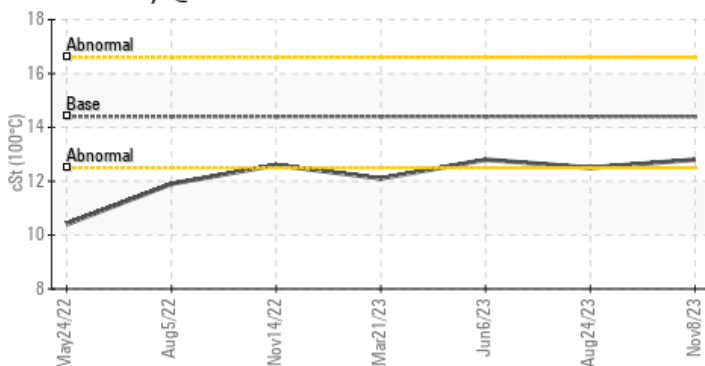
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

