



CONSTRUCTION EQUIPMENT

SWO-066609 VOLVO A45G 352916 - DIESEL ENGINE



Sample No: VCP432938
Oil Type: NOT GIVEN
Job No: SWO-066609



SAMPLE INFORMATION

Sample Number	VCP432938	VCP418153	VCP404631	VCP397724
Sample Date	11 Oct 2023	25 Jul 2023	04 May 2023	24 Jan 2023
Machine Hours	3517	3005	2493	1980
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.5	12.7	12.6
Base Number (BN)	mg KOH/g	10.1	9.8	9.7	7.5
Oxidation (PA)	%	79	76	80	71



CONTAMINATION

Soot %	%	0.5	0.4	0.3	0.3
Nitration (PA)	%	59	57	61	82
Sulfation (PA)	%	62	60	63	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	9
Sodium	ppm	2	3	0	4
Potassium	ppm	0	0	1	<1



WEAR METALS

Iron	ppm	9	9	12	18
Copper	ppm	2	6	43	194
Lead	ppm	0	0	<1	4
Tin	ppm	<1	<1	1	2
Aluminum	ppm	<1	2	<1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	39	48	43	39
Nickel	ppm	1	1	3	6
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1581	1804	1669	1860
Magnesium	ppm	432	530	485	580
Zinc	ppm	922	1002	1079	1021
Phosphorus	ppm	783	832	908	803
Barium	ppm	0	0	0	0
Boron	ppm	33	40	46	42

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.

Depot: SAIBIR
Unique No: 10698248
Signed: Angela Borella
Report Date: 18 Oct 2023

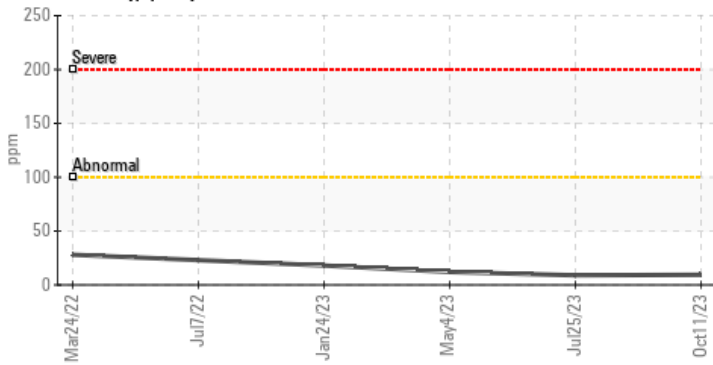


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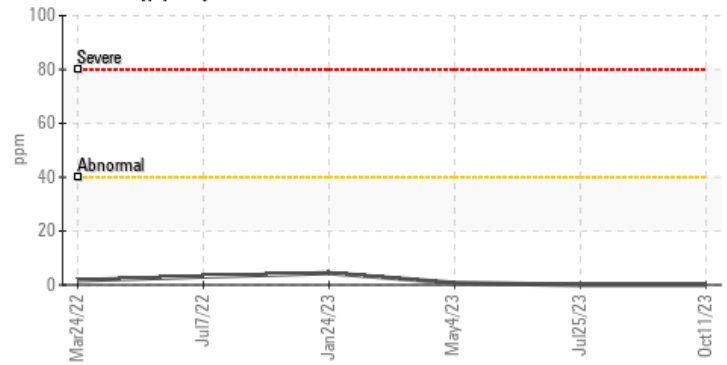


GRAPHS

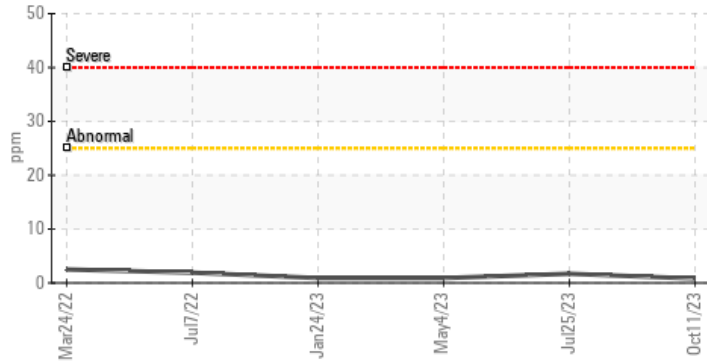
Iron (ppm)



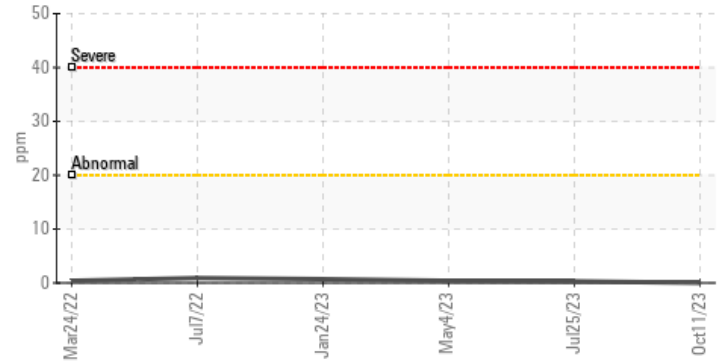
Lead (ppm)



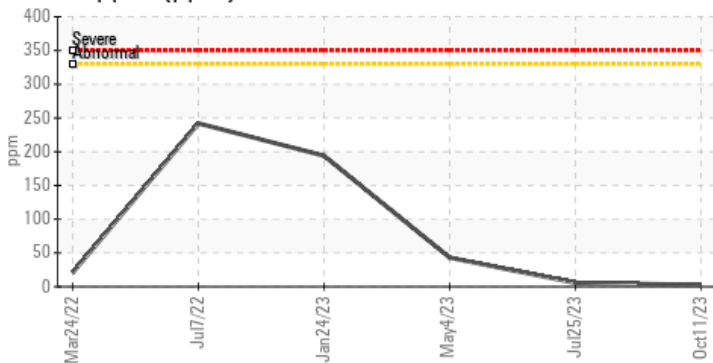
Aluminum (ppm)



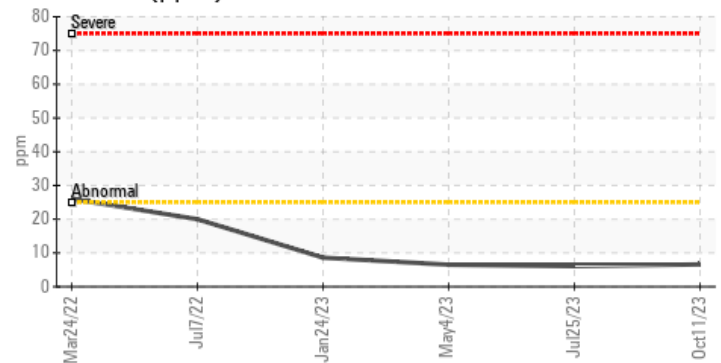
Chromium (ppm)



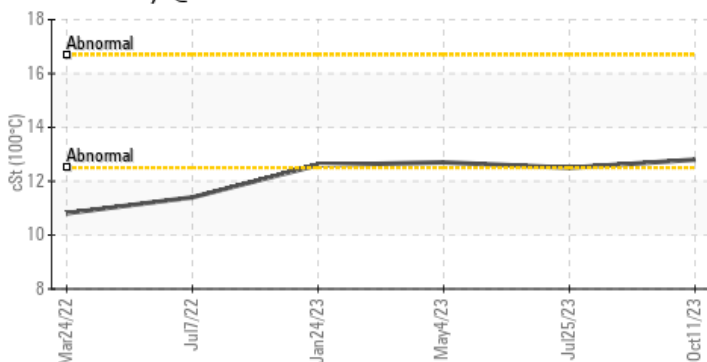
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

