



CONSTRUCTION EQUIPMENT

VOLVO A45G 352969 - BRAKE



Sample No: VCP433939

Oil Type: NOT GIVEN

Job No:



SAMPLE INFORMATION

Sample Number	VCP433939	VCP416522	VCP397909	VCP367320
Sample Date	19 Sep 2023	21 Jun 2023	24 Jan 2023	30 Sep 2022
Machine Hours	2491	2003	1469	975
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	40.0	41.3	40.7	40.3
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CONTAMINATION

Silicon	ppm	17	17	18	19
Sodium	ppm	9	12	12	11
Potassium	ppm	2	1	0	0



WEAR METALS

Iron	ppm	18	19	11	10
Copper	ppm	217	183	146	95
Lead	ppm	0	2	1	11
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	3	<1	0
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	<1	<1	<1	2
Nickel	ppm	5	4	3	3
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	2	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3145	3401	3540	3854
Magnesium	ppm	32	13	9	4
Zinc	ppm	1417	1511	1479	1577
Phosphorus	ppm	1200	1239	1204	1317
Barium	ppm	0	0	<1	0
Boron	ppm	113	116	127	123

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: SAIBIR
Unique No: 10662680
Signed: Doug Bogart
Report Date: 28 Sep 2023

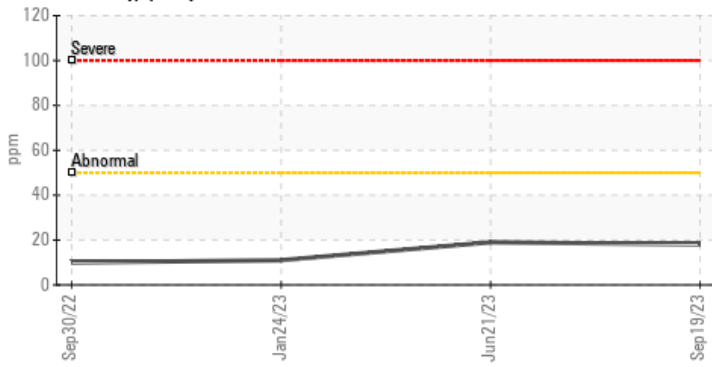


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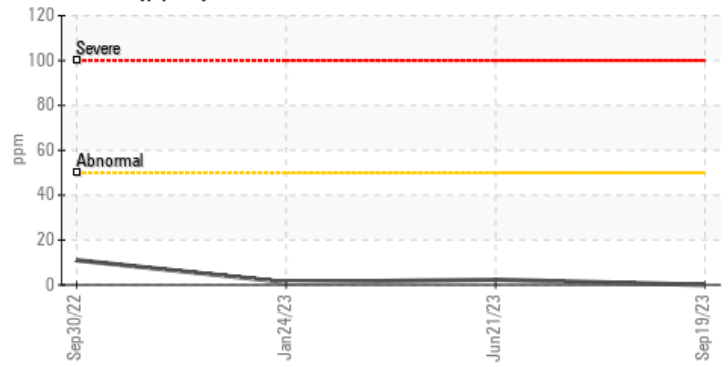


GRAPHS

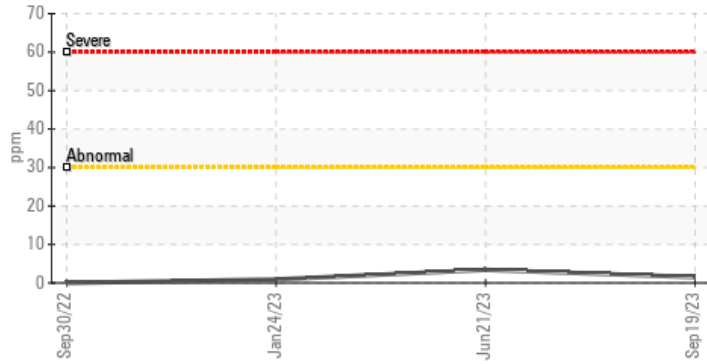
Iron (ppm)



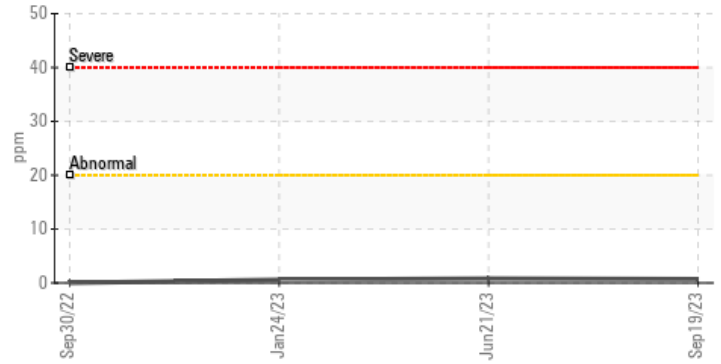
Lead (ppm)



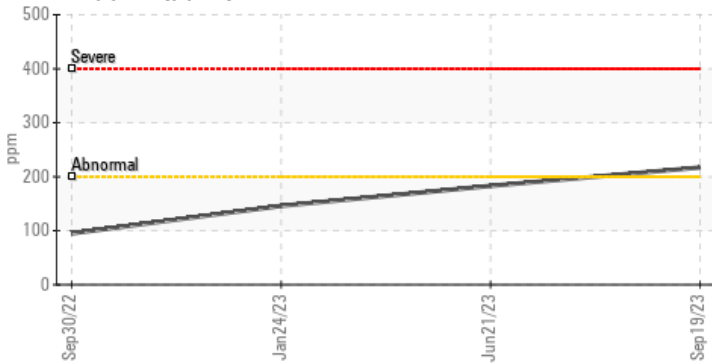
Aluminum (ppm)



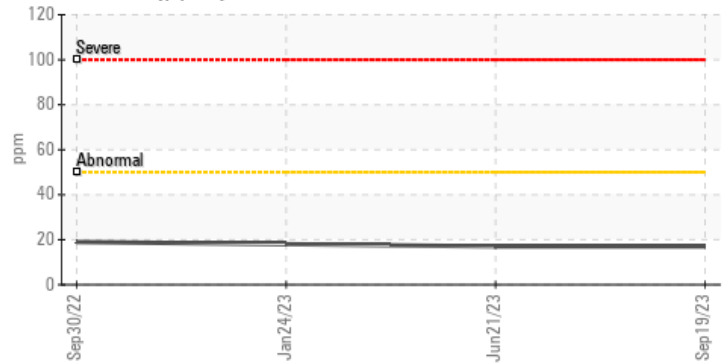
Chromium (ppm)



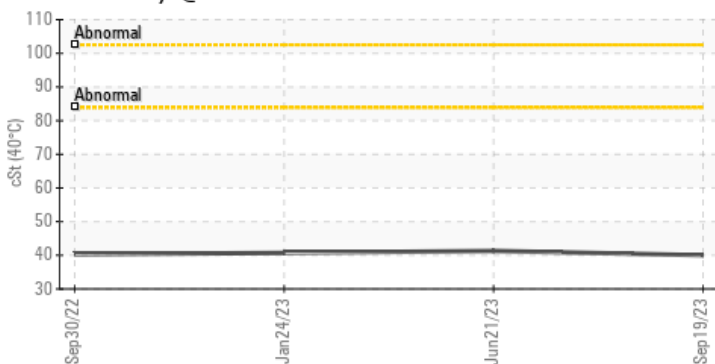
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

