



CONSTRUCTION EQUIPMENT

SWO-065604 VOLVO A60H 350187 - WET DISC BRAKE



Sample No: VCP428967
Oil Type: NOT GIVEN
Job No: SWO-065604



SAMPLE INFORMATION

Sample Number	VCP428967	VCP402247	VCP388250	VCP280094
Sample Date	06 Sep 2023	28 Feb 2023	14 Oct 2022	08 Aug 2022
Machine Hours	2021	1556	1098	537
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.1	42.0	41.3	40.9
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CONTAMINATION

Silicon	ppm	26	26	25	21
Sodium	ppm	11	13	10	11
Potassium	ppm	3	0	0	3

Diagnosis
 No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. The iron level is abnormal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	69	74	61	23
Copper	ppm	280	293	217	88
Lead	ppm	4	3	53	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	2	0	2
Chromium	ppm	<1	<1	2	<1
Molybdenum	ppm	2	0	<1	0
Nickel	ppm	4	3	3	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	3	4	4	2
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	4196	4410	3986	3899
Magnesium	ppm	31	21	13	9
Zinc	ppm	1558	1423	1456	1654
Phosphorus	ppm	1312	1181	1237	1349
Barium	ppm	0	0	0	2
Boron	ppm	146	152	123	137

Depot: SAIBIR
Unique No: 10646449
Signed: Angela Borella
Report Date: 18 Sep 2023

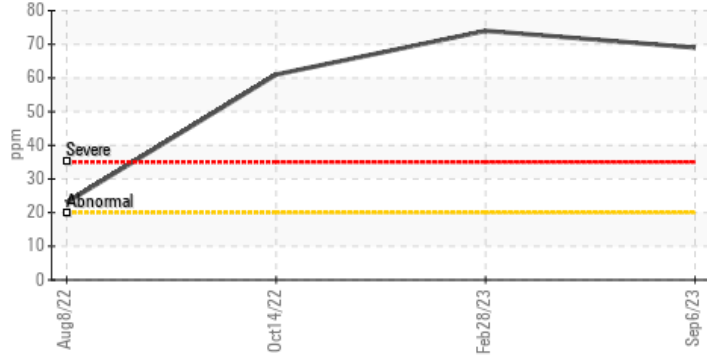


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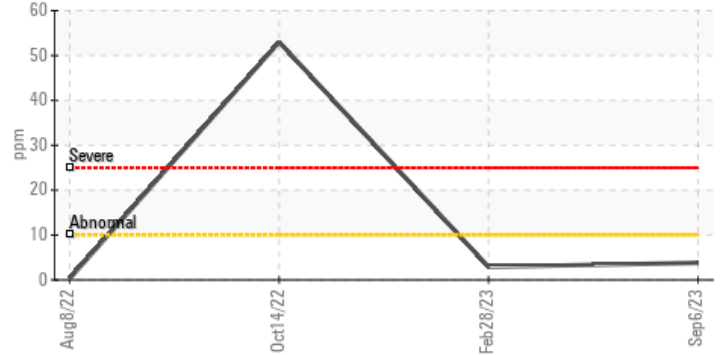


GRAPHS

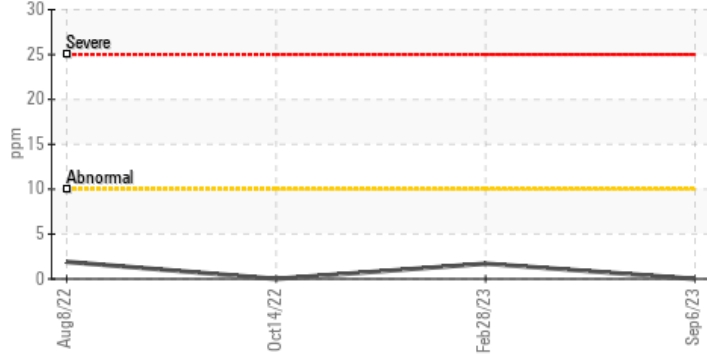
▲ Iron (ppm)



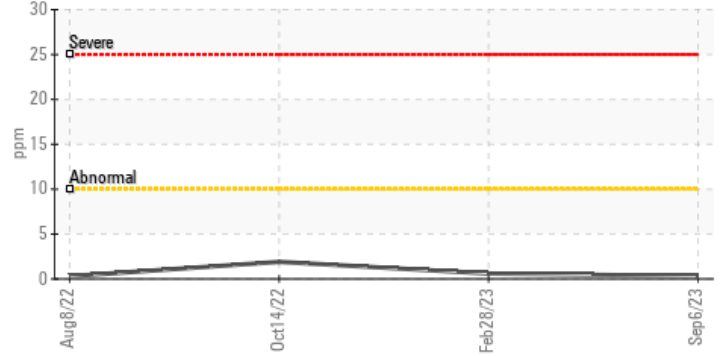
Lead (ppm)



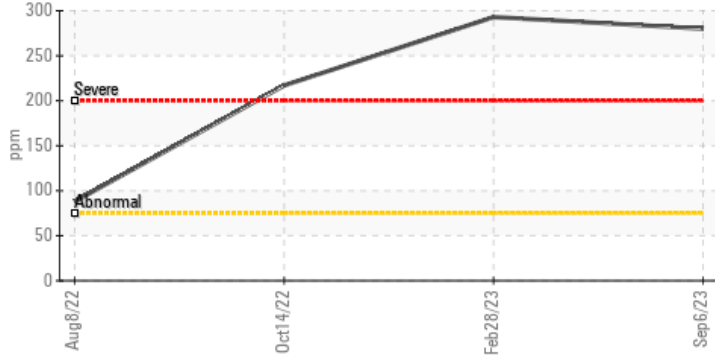
Aluminum (ppm)



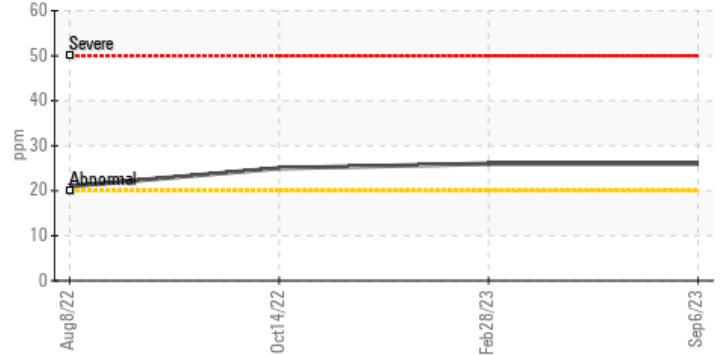
Chromium (ppm)



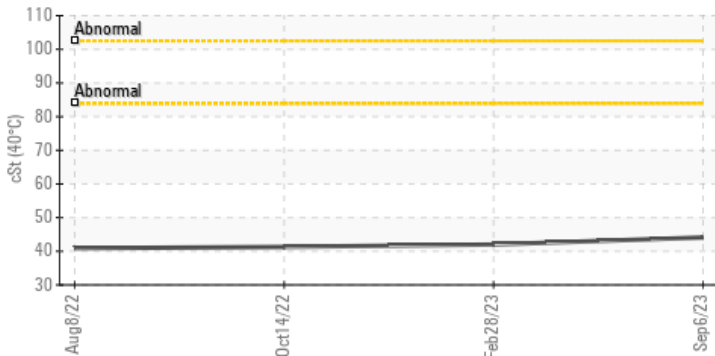
▲ Copper (ppm)



▲ Silicon (ppm)



Viscosity @ 40°C



Additives

