CONSTRUCTION EQUIPMENT
VOLVO A60H 350187 - WET DISC BRAKE

Sample No: VCP410905
Oil Type: {unknown}
Job No:

SAMPLE INFORMATION

Sample Number		**VCP410905**	VCP428967	VCP402247	VCP388250
Sample Date		**11 Jan 2024**	06 Sep 2023	28 Feb 2023	14 Oct 2022
Machine Hours		**2513**	2021	1556	1098
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**ABNORMAL**	ABNORMAL	ABNORMAL	ABNORMAL

OIL CONDITION

Visc @ 40°C	cSt	**43.5**	44.1	42.0	41.3

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Silicon	ppm	**22**	26	26	25
Sodium	ppm	**10**	11	13	10
Potassium	ppm	**0**	3	0	0

WEAR METALS

Iron	ppm	**51**	69	74	61
Copper	ppm	**334**	280	293	217
Lead	ppm	**3**	4	3	53
Tin	ppm	**<1**	<1	<1	<1
Aluminum	ppm	**1**	0	2	0
Chromium	ppm	**<1**	<1	<1	2
Molybdenum	ppm	**1**	2	0	<1
Nickel	ppm	**4**	4	3	3
Titanium	ppm	**<1**	0	<1	<1
Silver	ppm	**0**	0	0	0
Manganese	ppm	**3**	3	4	4
Vanadium	ppm	**<1**	0	<1	<1

ADDITIVES

Calcium	ppm	**3543**	4196	4410	3986
Magnesium	ppm	**23**	31	21	13
Zinc	ppm	**1361**	1558	1423	1456
Phosphorus	ppm	**1236**	1312	1181	1237
Barium	ppm	**0**	0	0	0
Boron	ppm	**124**	146	152	123

SAIIA CONSTRUCTION LLC
4400 LEWISBURG RD
BIRMINGHAM, AL
US 35207
Contact: STEPHANI BRITTON
sbritton@saiia.com;doug.bogart@wearcheck.com
T: (205)943-2268
F: (205)943-2269

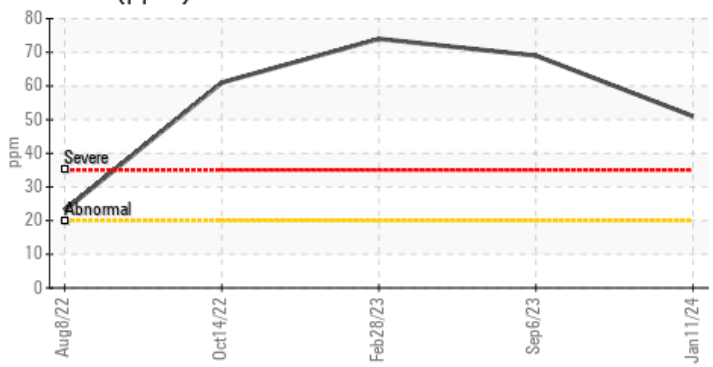
Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.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.

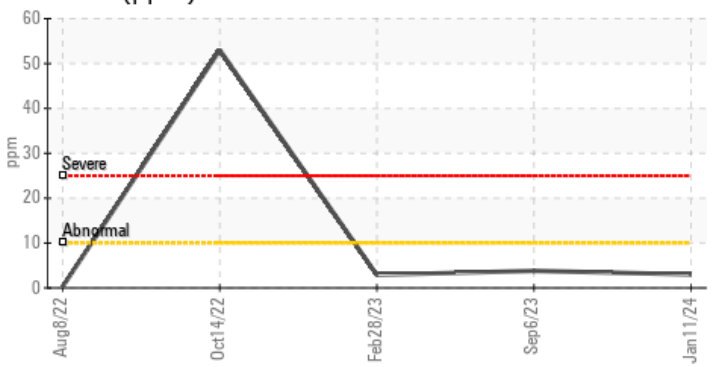
Depot: SAIBIR
Unique No: 10845470
Signed: Jonathan Hester
Report Date: 26 Jan 2024

GRAPHS

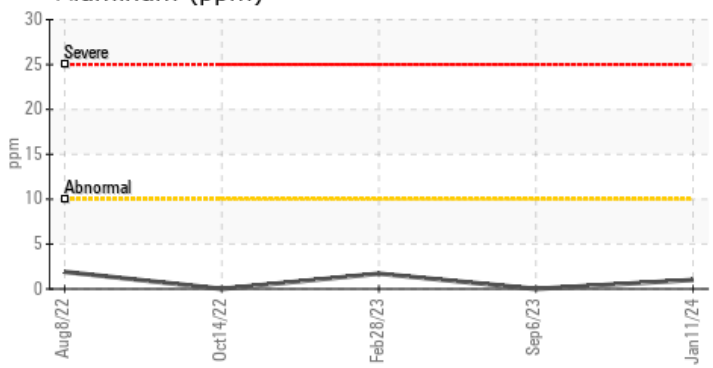
Iron (ppm)



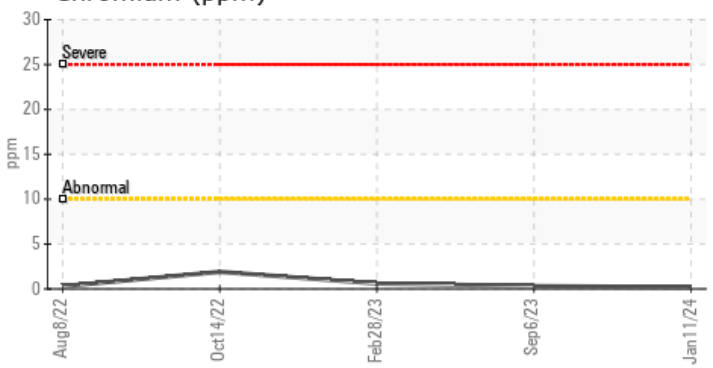
Lead (ppm)



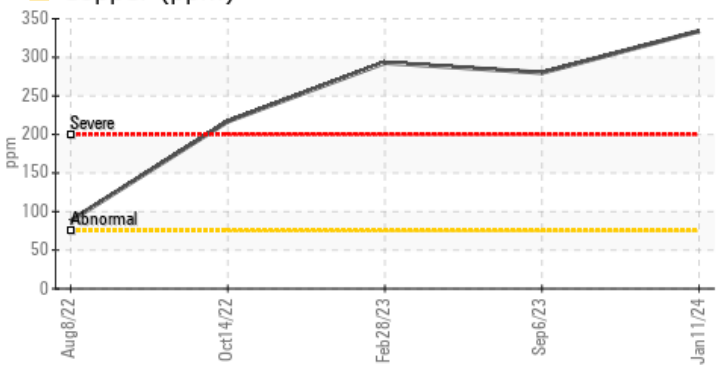
Aluminum (ppm)



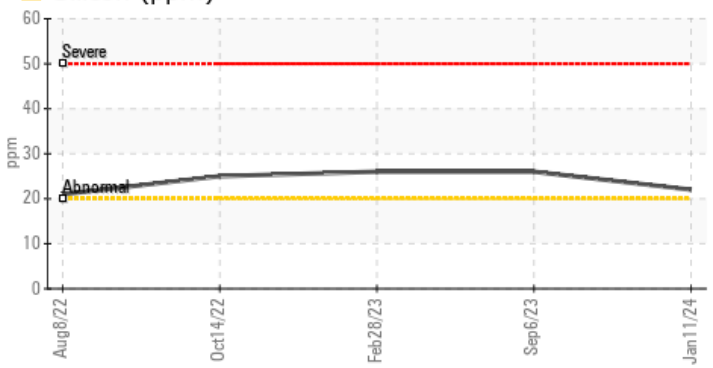
Chromium (ppm)



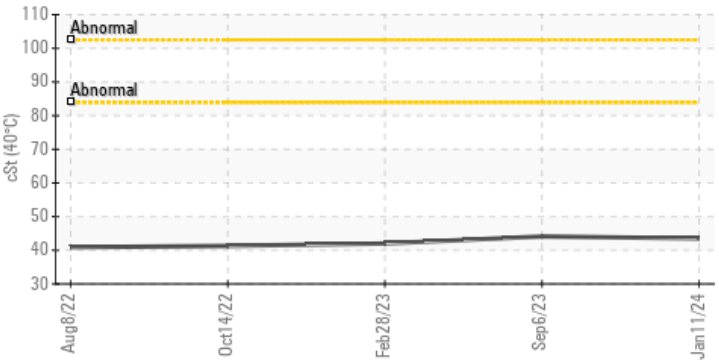
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives