CONSTRUCTION EQUIPMENT
VOLVO A40G 352449 - WET DISC BRAKE

Sample No: VCP449683
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No:

ALTA EQUIPMENT COMPANY
5151 DR MARTIN LUTHER KING BLVD
FORT MYERS, FL
US 33905
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SAMPLE INFORMATION

Sample Number		**VCP449683**	VCP455453	VCP323823	VCP310528
Sample Date		**18 Jun 2024**	02 May 2024	25 Oct 2023	30 Apr 2021
Machine Hours		**8146**	8038	7451	2179
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	**39.2**	39.3	39.7	39.7

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Silicon	ppm	**21**	19	21	17
Sodium	ppm	**8**	9	9	10
Potassium	ppm	**<1**	1	<1	<1

WEAR METALS

Iron	ppm	**36**	36	34	17
Copper	ppm	**222**	210	212	127
Lead	ppm	**2**	4	0	<1
Tin	ppm	**0**	2	0	<1
Aluminum	ppm	**<1**	1	<1	1
Chromium	ppm	**<1**	1	<1	<1
Molybdenum	ppm	**0**	<1	0	<1
Nickel	ppm	**7**	8	7	6
Titanium	ppm	**0**	<1	0	<1
Silver	ppm	**0**	<1	0	<1
Manganese	ppm	**1**	2	2	1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**3160**	2981	2932	3464
Magnesium	ppm	**11**	8	20	12
Zinc	ppm	**1465**	1373	1386	1467
Phosphorus	ppm	**1302**	1285	1254	1285
Barium	ppm	**0**	0	0	0
Boron	ppm	**96**	88	102	128

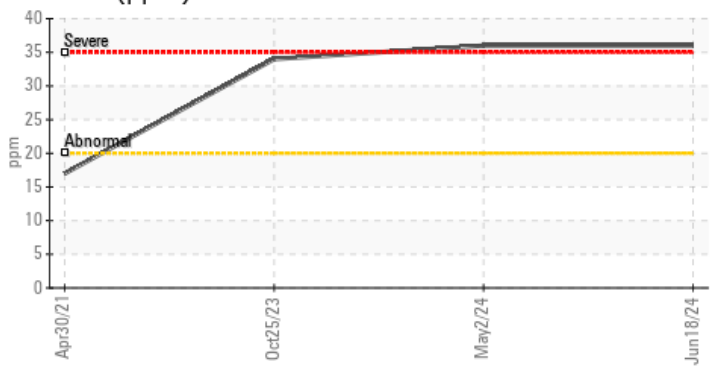
Diagnosis

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. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

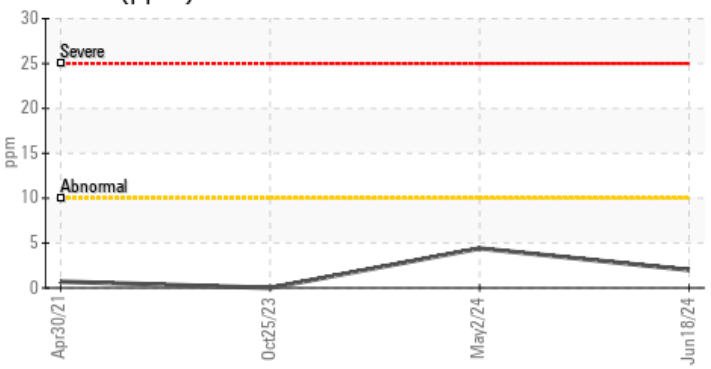
Depot: VOLVO0090
Unique No: 11099773
Signed: Angela Borella
Report Date: 28 Jun 2024

GRAPHS

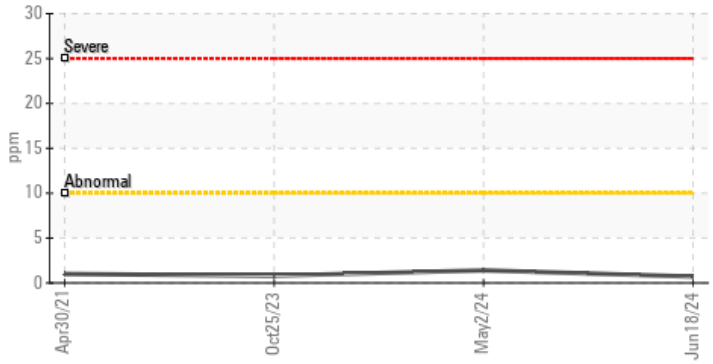
Iron (ppm)



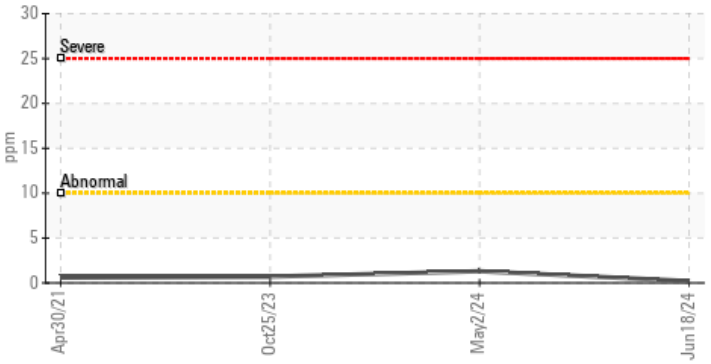
Lead (ppm)



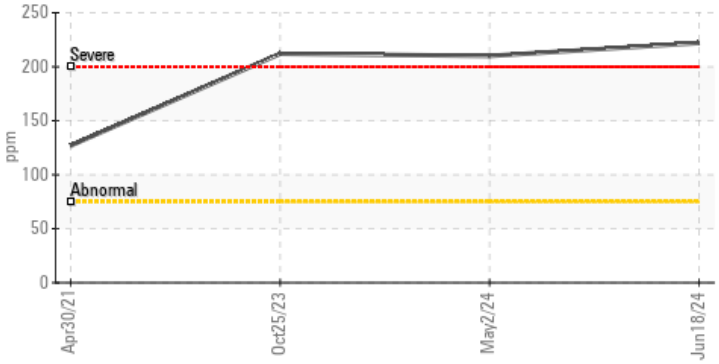
Aluminum (ppm)



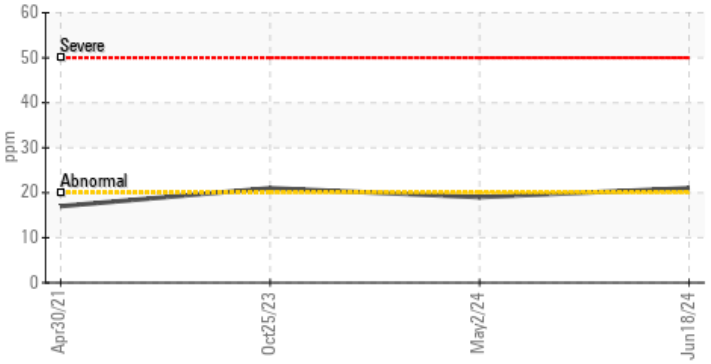
Chromium (ppm)



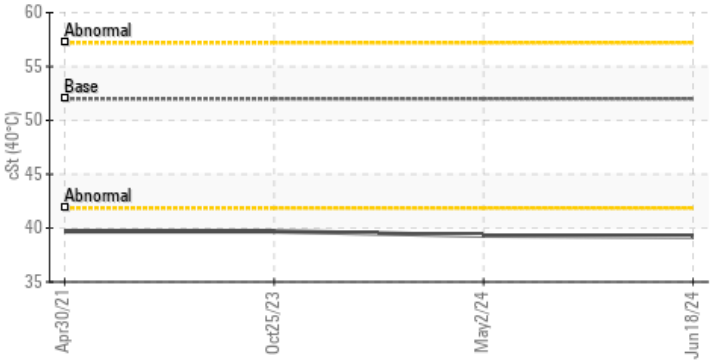
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives