CONSTRUCTION EQUIPMENT

539556 VOLVO A40G 341642 - WET DISC BRAKE

Sample No: VCP403923
Oil Type: VOLVO WB 102
Job No: 539556

ORANGE COUNTY SOLID WASTE
5901 YOUNG PINE ROAD
ORLANDO, FL
US 32829
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SAMPLE INFORMATION

Sample Number		**VCP403923**	VCP350886	VCP298844	VCP249906
Sample Date		**12 Apr 2023**	12 Feb 2022	13 Mar 2021	06 Feb 2020
Machine Hours		**10853**	8928	7971	6101
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Changed	Changed
Sample Status		**ABNORMAL**	ABNORMAL	ABNORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**42.0**	44.1	40.7	39.9

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Silicon	ppm	**12**	13	15	18
Sodium	ppm	**5**	5	5	7
Potassium	ppm	**0**	0	<1	1

WEAR METALS

Iron	ppm	**28**	23	28	26
Copper	ppm	▲ **146**	▲ 130	▲ 233	111
Lead	ppm	**2**	2	<1	<1
Tin	ppm	**0**	<1	0	0
Aluminum	ppm	**0**	1	0	<1
Chromium	ppm	**<1**	<1	<1	<1
Molybdenum	ppm	**1**	1	<1	<1
Nickel	ppm	**<1**	0	2	2
Titanium	ppm	**0**	0	<1	0
Silver	ppm	**0**	0	0	<1
Manganese	ppm	**1**	<1	2	1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**3972**	4220	4127	4020
Magnesium	ppm	**29**	23	17	14
Zinc	ppm	**1617**	1509	1516	1498
Phosphorus	ppm	**1366**	1347	1380	1313
Barium	ppm	**0**	0	0	0
Boron	ppm	**142**	127	129	120

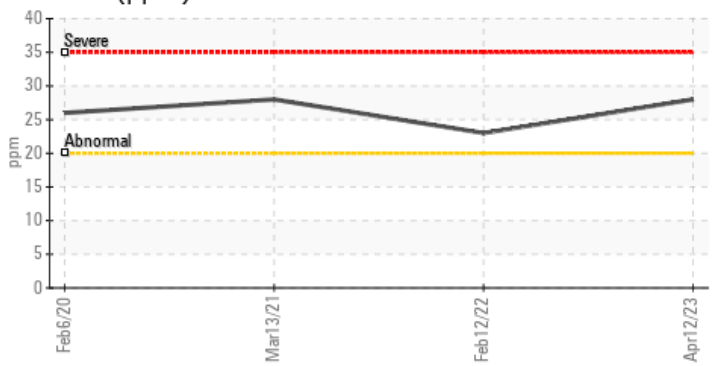
Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level has decreased, but is still 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.

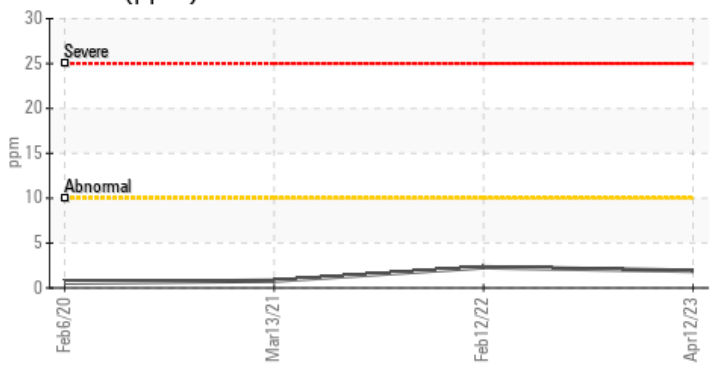
Depot: ORAORL
Unique No: 10429954
Signed: Don Baldridge
Report Date: 19 Apr 2023

GRAPHS

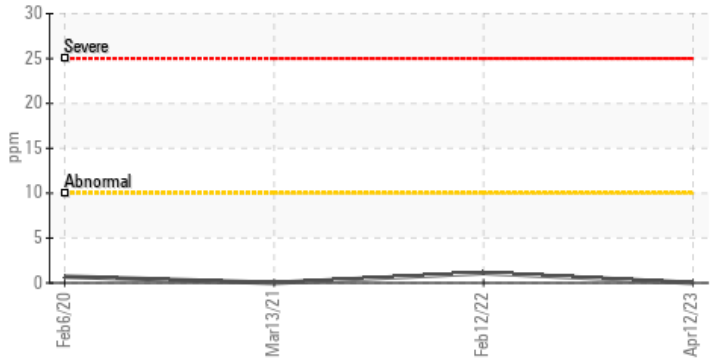
Iron (ppm)



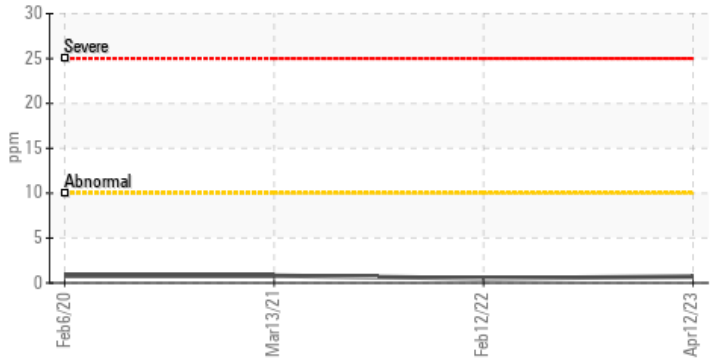
Lead (ppm)



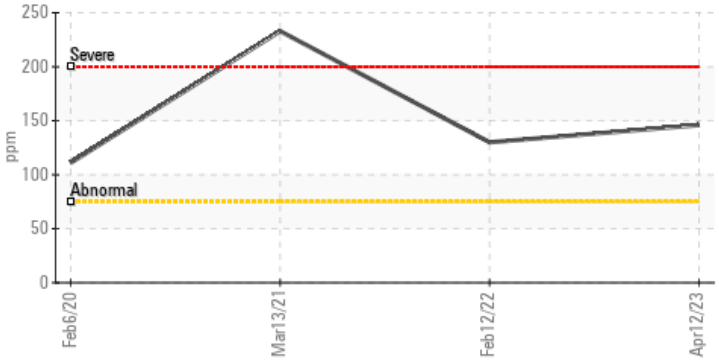
Aluminum (ppm)



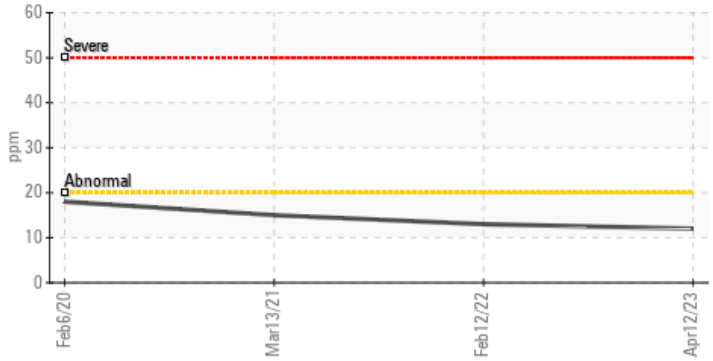
Chromium (ppm)



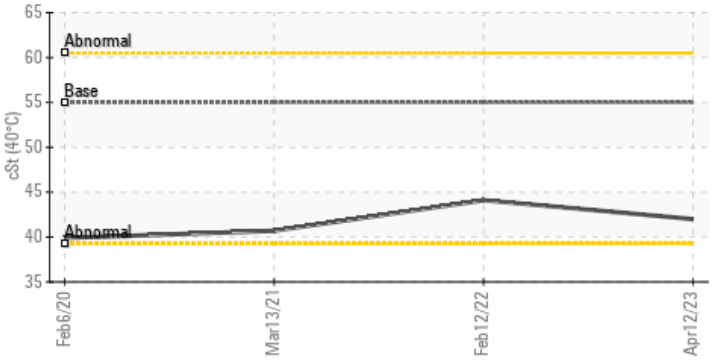
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives