



CONSTRUCTION EQUIPMENT

VOLVO A40G 352463 - WET DISC BRAKE



Sample No: VCP401608
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No:



SAMPLE INFORMATION

Sample Number	VCP401608	VCP386394	VCP359884	VCP296464
Sample Date	28 Aug 2023	29 Sep 2022	15 Apr 2022	06 Aug 2021
Machine Hours	6364	4268	2875	1655
Oil Hours	0	0	2875	0
Oil Changed	Not Changd	N/A	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

SENECA MEADOWS
 1786 SALCMAN ROAD
 WATERLOO, NY
 US
 Contact: EDWARD BARTO
 ebarto@iesi.com
 T: (315)539-5624
 F: (315)539-4656



OIL CONDITION

Visc @ 40°C	cSt	40.4	40.1	40.1	39.6
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CONTAMINATION

Silicon	ppm	20	28	20	40
Sodium	ppm	12	9	11	11
Potassium	ppm	0	2	<1	<1



WEAR METALS

Iron	ppm	24	43	22	70
Copper	ppm	160	141	105	51
Lead	ppm	2	0	<1	<1
Tin	ppm	1	0	<1	<1
Aluminum	ppm	2	5	1	4
Chromium	ppm	1	1	1	1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	6	5	5	3
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	<1	1
Manganese	ppm	2	1	1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	3895	3400	3853	3704
Magnesium	ppm	0	8	14	12
Zinc	ppm	1606	1453	1550	1575
Phosphorus	ppm	1387	1280	1344	1299
Barium	ppm	0	0	0	0
Boron	ppm	126	129	124	118

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. The copper 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: SENWAT
Unique No: 10629074
Signed: Sean Felton
Report Date: 31 Aug 2023

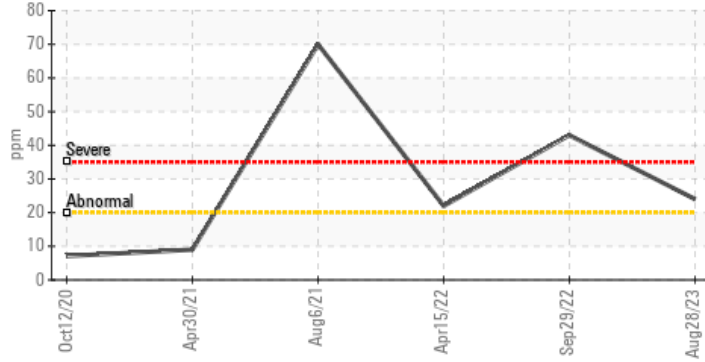


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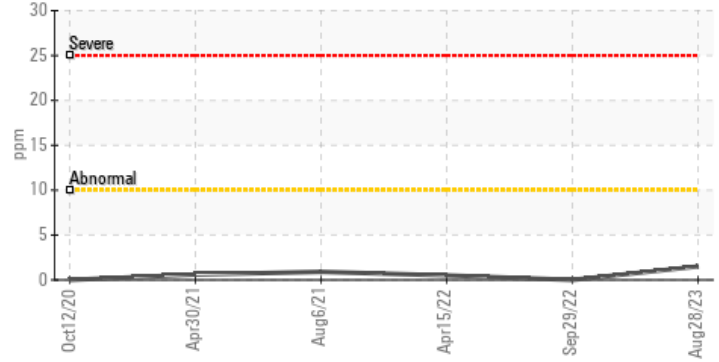


GRAPHS

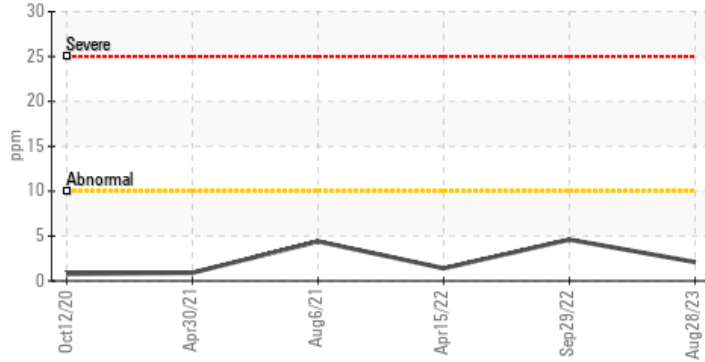
▲ Iron (ppm)



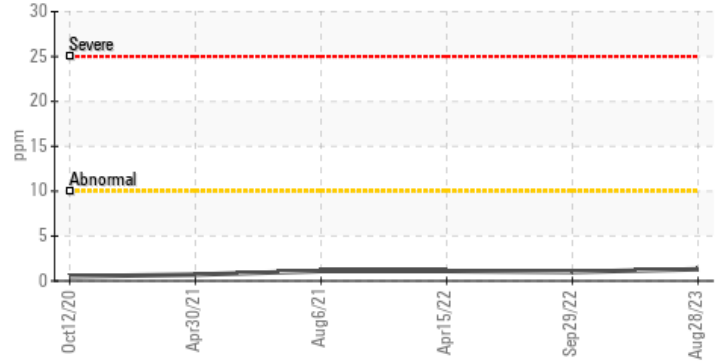
Lead (ppm)



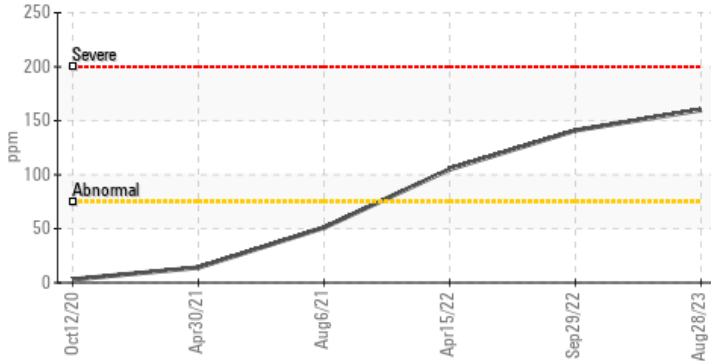
Aluminum (ppm)



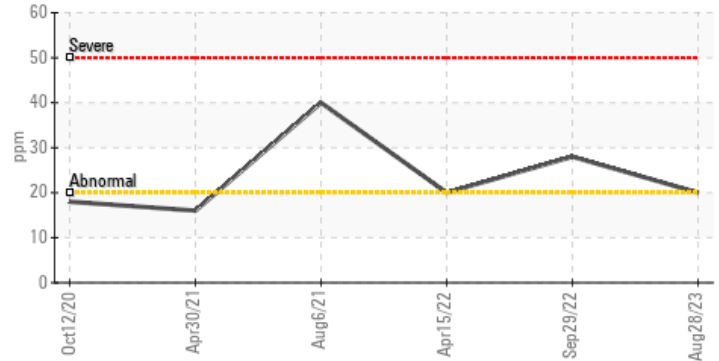
Chromium (ppm)



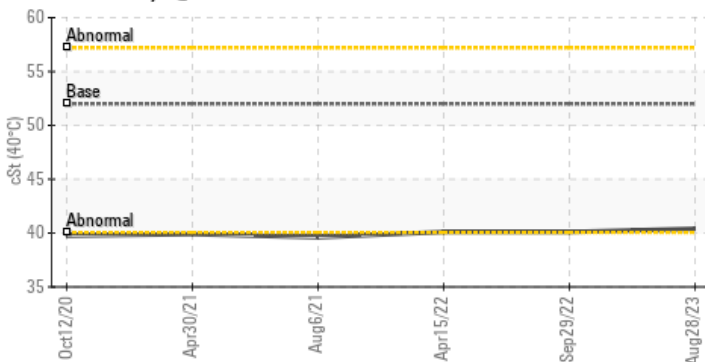
▲ Copper (ppm)



▲ Silicon (ppm)



Viscosity @ 40°C



Additives

