CONSTRUCTION EQUIPMENT

SWA379009-10 VOLVO L220H 2752 - HYDRAULIC SYSTEM

Sample No: VCP424138
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA379009-10

WHEELABRATOR
1 CHARLES POINT AVE
PEEKSKILL, NY
US 10566
Contact: Service Manager

T:
F:

SAMPLE INFORMATION

Sample Number		**VCP424138**	VCP412854	VCP396052	VCP376108
Sample Date		**21 Oct 2023**	07 Sep 2023	23 May 2023	17 Oct 2022
Machine Hours		**16017**	15591	14548	12267
Oil Hours		**0**	0	0	0
Oil Changed		**N/A**	Not Changd	Not Changd	Not Changd
Sample Status		**SEVERE**	NORMAL	ABNORMAL	ABNORMAL

OIL CONDITION

Visc @ 40°C	cSt	**47.5**	40.7	40.6	40.5
Acid Number (AN)	mg KOH/g	**0.49**	0.45	0.42	0.49

CONTAMINATION

Particles >4µm		**41398**	4922	10325	33176
Particles >6µm		**7394**	1062	862	4302
Particles >14µm		**433**	80	30	326
ISO 4406:1999 (c)		**23/20/16**	19/17/13	21/17/12	22/19/16
Silicon	ppm	**3**	2	2	2
Sodium	ppm	**0**	2	2	0
Potassium	ppm	**2**	0	0	2

WEAR METALS

Iron	ppm	**6**	6	5	4
Copper	ppm	**2**	<1	2	2
Lead	ppm	**1**	0	0	1
Tin	ppm	**0**	0	0	<1
Aluminum	ppm	**<1**	0	<1	0
Chromium	ppm	**2**	2	2	1
Molybdenum	ppm	**<1**	0	<1	<1
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**0**	0	<1	0
Silver	ppm	**0**	0	0	0
Manganese	ppm	**0**	<1	<1	0
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**825**	805	818	856
Magnesium	ppm	**9**	11	10	8
Zinc	ppm	**602**	593	590	619
Phosphorus	ppm	**442**	394	461	480
Barium	ppm	**0**	0	0	0
Boron	ppm	**25**	25	26	23

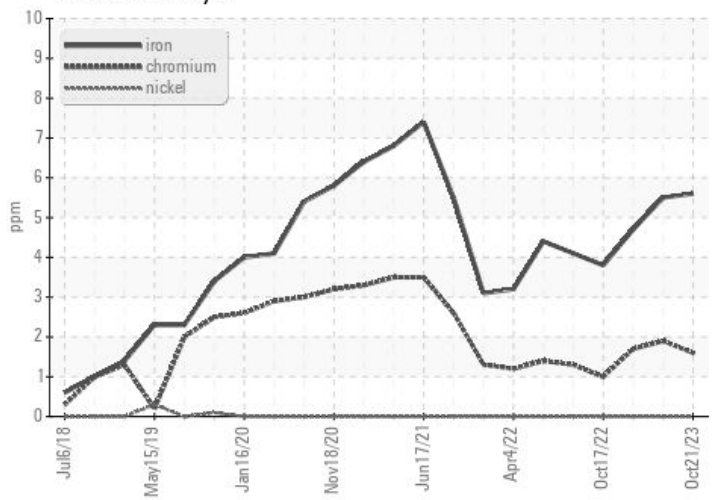
Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

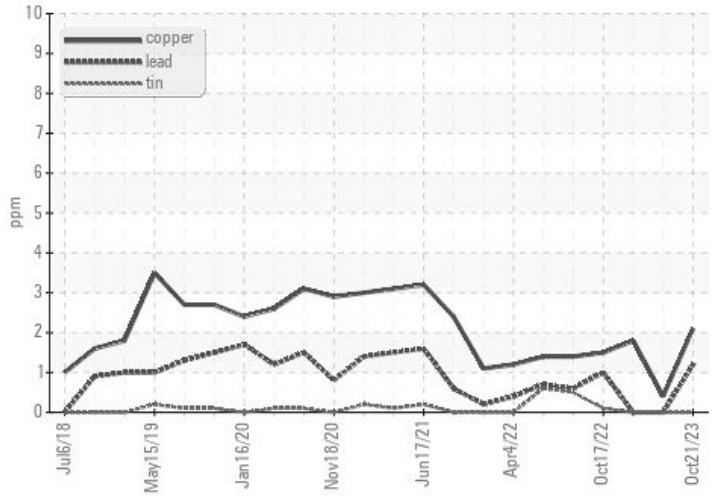
Depot: WHEPEE
Unique No: 10725696
Signed: Wes Davis
Report Date: 03 Nov 2023

GRAPHS

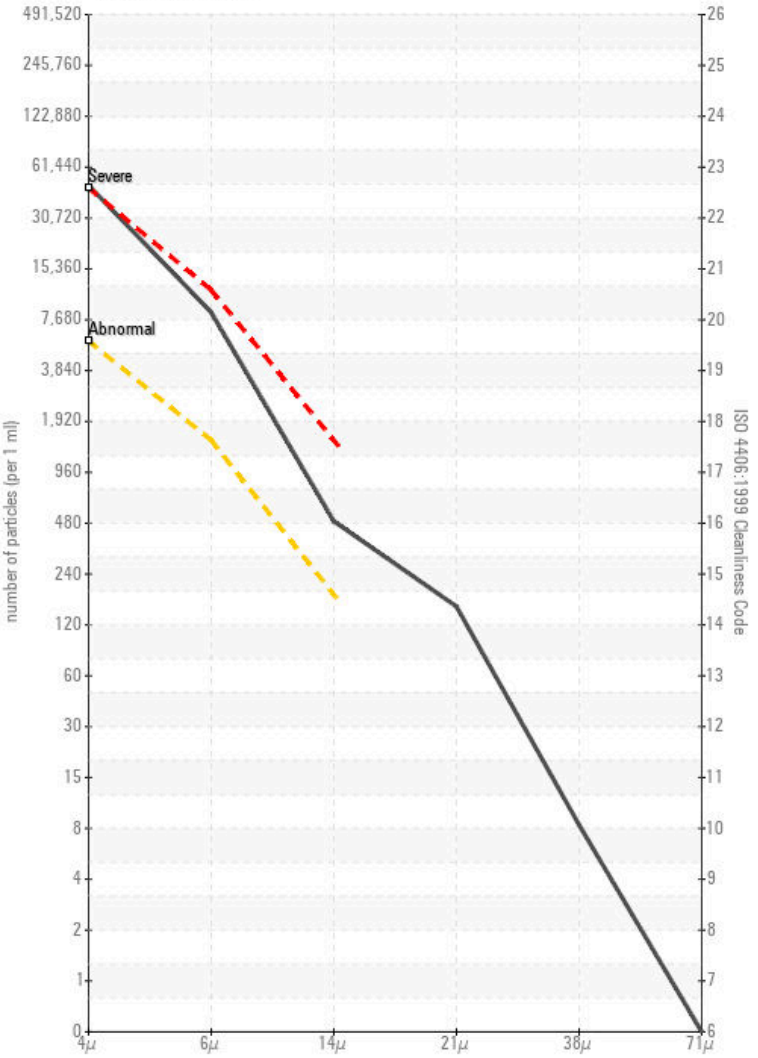
Ferrous Alloys



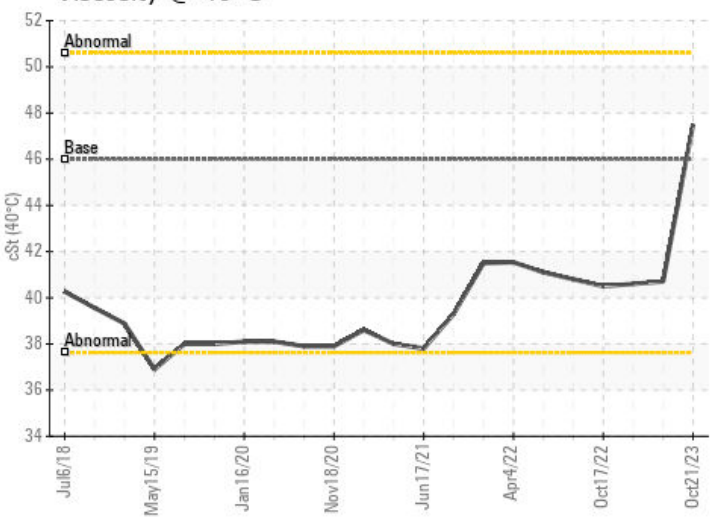
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number