CONSTRUCTION EQUIPMENT
A12444 VOLVO L150H 5620 - HYDRAULIC SYSTEM

Sample No: VCP440329
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A12444

WASTE MANAGEMENT - TELFORD
400 PROGRESS DR
TELFORD, PA
US 18969-1191
Contact: EDWARD ROGENER
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SAMPLE INFORMATION

Sample Number		**VCP440329**	VCP440438	VCP428653	VCP363943
Sample Date		**10 Apr 2024**	15 Feb 2024	05 Jan 2024	08 Feb 2023
Machine Hours		**15680**	15280	14960	13266
Oil Hours		**1000**	1500	1000	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Changed
Sample Status		**SEVERE**	ABNORMAL	SEVERE	ABNORMAL

OIL CONDITION

Visc @ 40°C	cSt	**42.1**	42.2	42.4	41.7
Acid Number (AN)	mg KOH/g	**0.42**	0.43	0.28	0.50

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**12336**	18845	93727	15347
Particles >6µm		**4967**	5438	28725	1244
Particles >14µm		**996**	448	1594	31
ISO 4406:1999 (c)		**21/19/17**	21/20/16	24/22/18	21/17/12
Silicon	ppm	**3**	3	5	3
Sodium	ppm	**3**	2	<1	3
Potassium	ppm	**1**	0	2	2

WEAR METALS

Iron	ppm	**8**	3	14	18
Copper	ppm	**3**	2	6	6
Lead	ppm	**<1**	0	2	2
Tin	ppm	**0**	0	<1	<1
Aluminum	ppm	**<1**	<1	2	0
Chromium	ppm	**1**	1	2	3
Molybdenum	ppm	**0**	0	0	<1
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**<1**	0	<1	<1
Silver	ppm	**0**	0	0	0
Manganese	ppm	**0**	0	0	<1
Vanadium	ppm	**<1**	0	0	0

ADDITIVES

Calcium	ppm	**71**	62	79	57
Magnesium	ppm	**1**	0	3	4
Zinc	ppm	**428**	463	482	421
Phosphorus	ppm	**338**	367	401	345
Barium	ppm	**0**	0	1	0
Boron	ppm	**0**	0	0	0

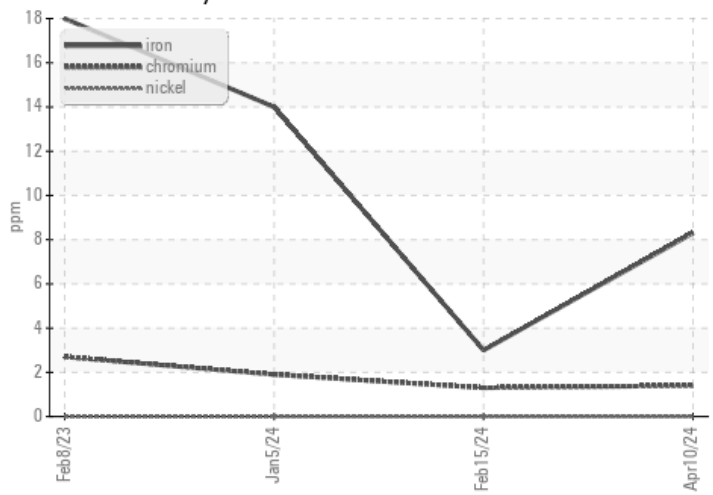
Diagnosis

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.

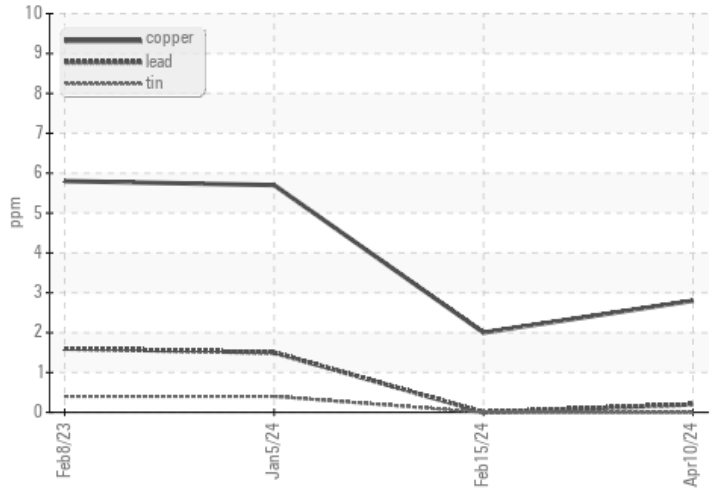
Depot: WASTEL
Unique No: 10991254
Signed: Wes Davis
Report Date: 23 Apr 2024

GRAPHS

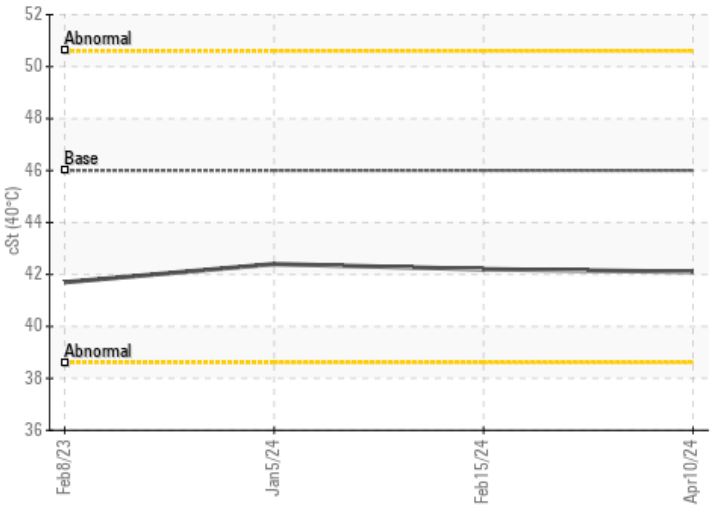
Ferrous Alloys



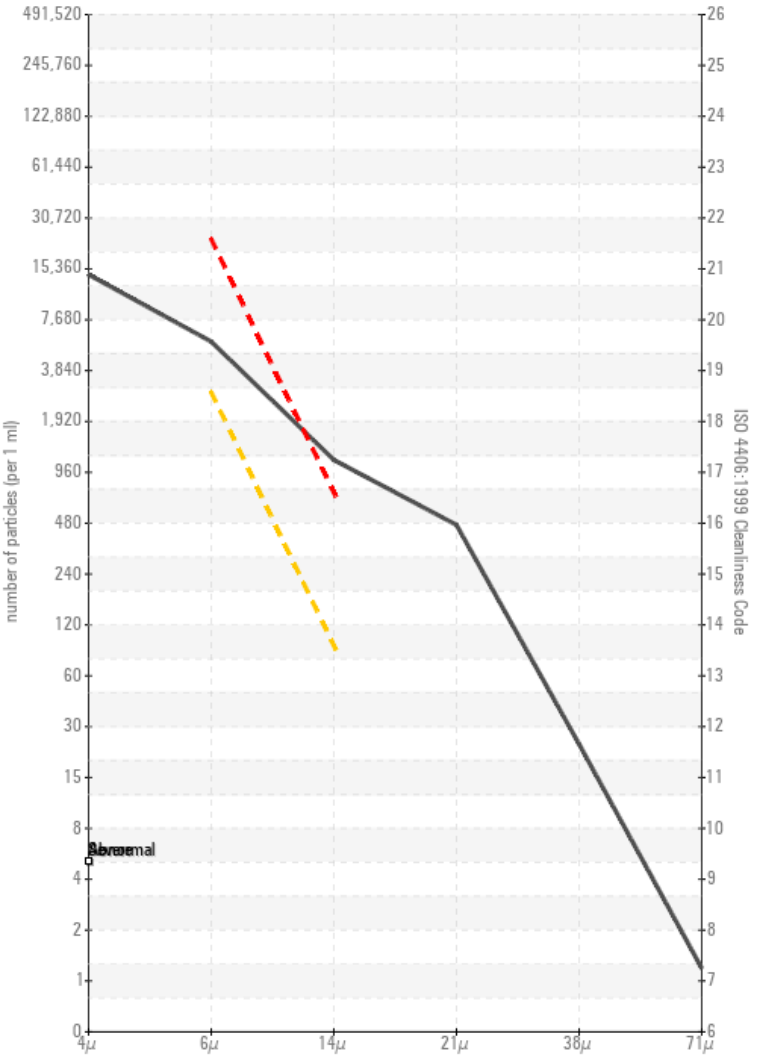
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number