CONSTRUCTION EQUIPMENT

SW1025005 IAA 2 VOLVO L90H 623449 - HYDRAULIC SYSTEM

Sample No: VCP423073
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SW1025005 IAA 2

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SAMPLE INFORMATION

Sample Number		**VCP423073**	VCP355157	VCP277922	VCP252635
Sample Date		**10 Oct 2023**	09 Sep 2022	22 Jun 2020	18 Sep 2019
Machine Hours		**13824**	12845	10127	8324
Oil Hours		**0**	0	0	0
Oil Changed		**Changed**	Changed	Changed	Changed
Sample Status		**ABNORMAL**	NORMAL	ABNORMAL	ATTENTION

OIL CONDITION

Visc @ 40°C	cSt	**42.6**	42.2	41.8	39.0
Acid Number (AN)	mg KOH/g	**0.43**	0.35	0.354	0.333

CONTAMINATION

Particles >4µm		**13486**	2311	21171	5308
Particles >6µm		**3701**	535	4972	1064
Particles >14µm		**212**	47	481	89
ISO 4406:1999 (c)		**21/19/15**	18/16/13	22/19/16	20/17/14
Silicon	ppm	**2**	4	5	8
Sodium	ppm	**2**	<1	2	2
Potassium	ppm	**1**	0	7	2

WEAR METALS

Iron	ppm	**3**	7	6	7
Copper	ppm	**2**	6	8	15
Lead	ppm	**<1**	<1	1	3
Tin	ppm	**0**	0	0	<1
Aluminum	ppm	**<1**	2	<1	1
Chromium	ppm	**0**	<1	<1	<1
Molybdenum	ppm	**<1**	<1	<1	<1
Nickel	ppm	**0**	0	<1	0
Titanium	ppm	**0**	0	<1	<1
Silver	ppm	**0**	<1	0	0
Manganese	ppm	**0**	0	<1	<1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**68**	77	109	141
Magnesium	ppm	**5**	4	9	<1
Zinc	ppm	**477**	387	352	406
Phosphorus	ppm	**401**	311	280	357
Barium	ppm	**3**	0	<1	<1
Boron	ppm	**0**	1	1	3

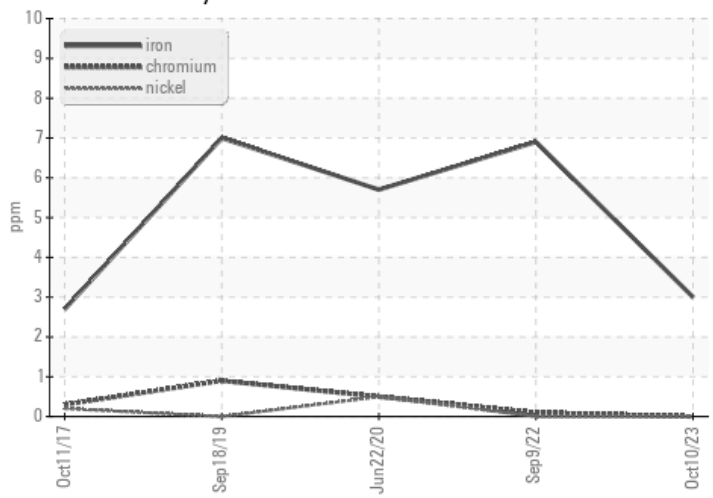
Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate 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.

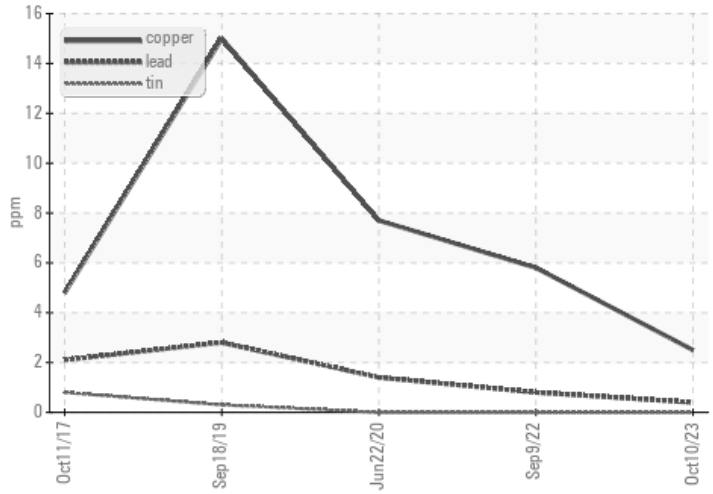
Depot: VOLVO6174
Unique No: 10699175
Signed: Wes Davis
Report Date: 18 Oct 2023

GRAPHS

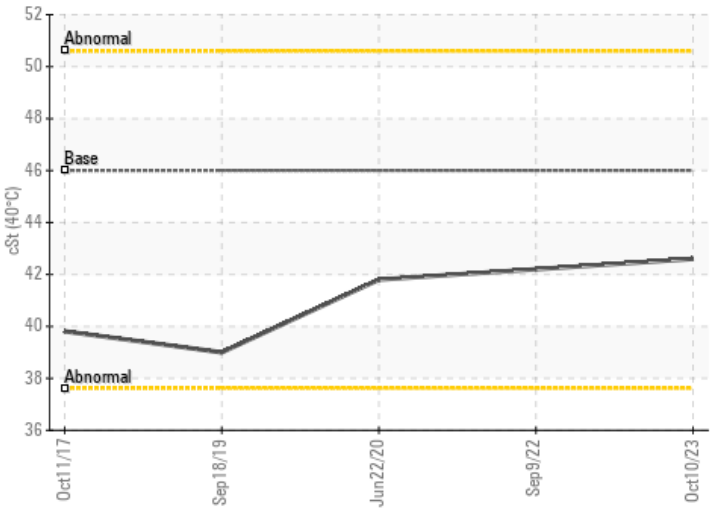
Ferrous Alloys



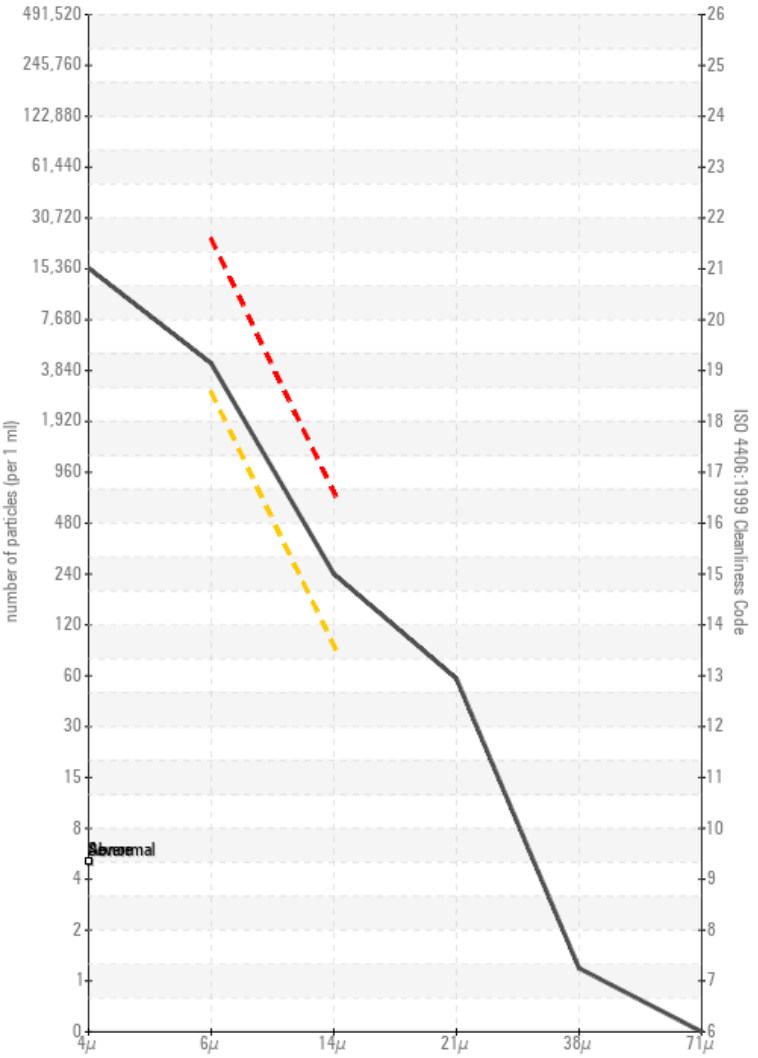
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number