CONSTRUCTION EQUIPMENT
A12543 VOLVO L180H 4165 - HYDRAULIC SYSTEM

Sample No: VCP413244
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A12543

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

Sample Number		**VCP413244**	VCP405611	VCP399911	---
Sample Date		**02 May 2024**	10 Feb 2024	21 Feb 2023	---
Machine Hours		**14045**	13485	10932	---
Oil Hours		**2000**	1500	0	---
Oil Changed		**Not Changd**	Not Changd	Not Changd	---
Sample Status		**NORMAL**	ATTENTION	ATTENTION	---

OIL CONDITION

Visc @ 40°C	cSt	**42.5**	42.4	42.0	---
Acid Number (AN)	mg KOH/g	**0.35**	0.37	---	---

CONTAMINATION

Water	%	**NEG**	NEG	NEG	---
Particles >4µm		**6869**	6253	7223	---
Particles >6µm		**1305**	1487	1572	---
Particles >14µm		**61**	90	97	---
ISO 4406:1999 (c)		**20/18/13**	20/18/14	20/18/14	---
Silicon	ppm	**2**	<1	2	---
Sodium	ppm	**2**	<1	6	---
Potassium	ppm	**<1**	0	0	---

WEAR METALS

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

ADDITIVES

Calcium	ppm	**133**	65	63	---
Magnesium	ppm	**4**	0	2	---
Zinc	ppm	**472**	498	418	---
Phosphorus	ppm	**383**	391	333	---
Barium	ppm	**0**	0	0	---
Boron	ppm	**0**	0	0	---

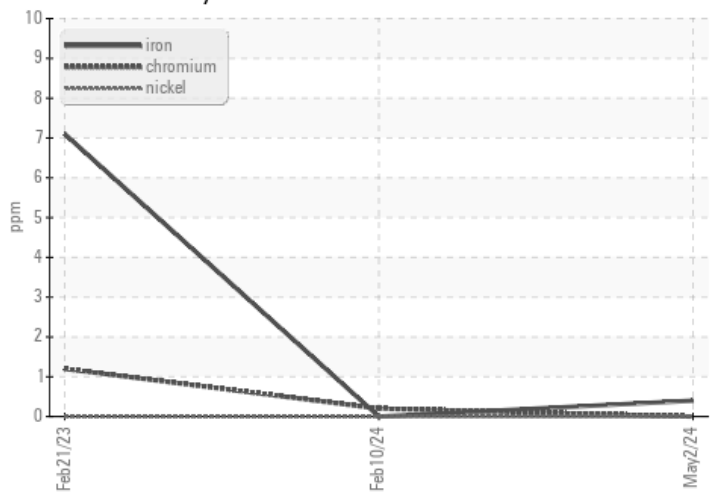
Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

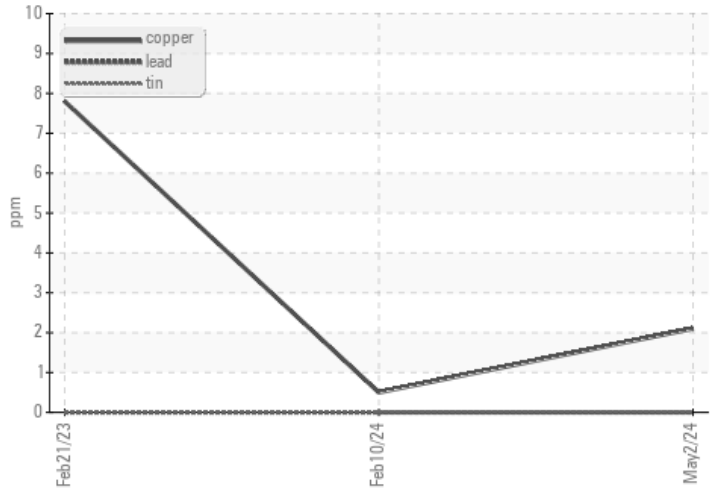
Depot: WASTEL
Unique No: 11032593
Signed: Wes Davis
Report Date: 17 May 2024

GRAPHS

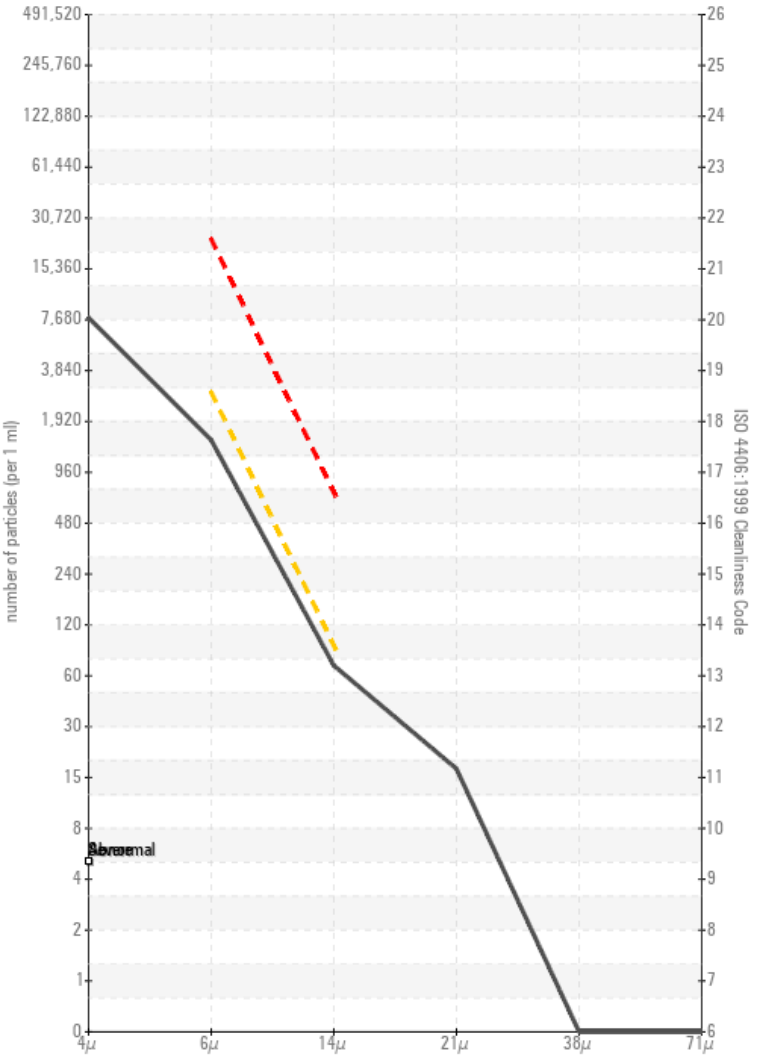
Ferrous Alloys



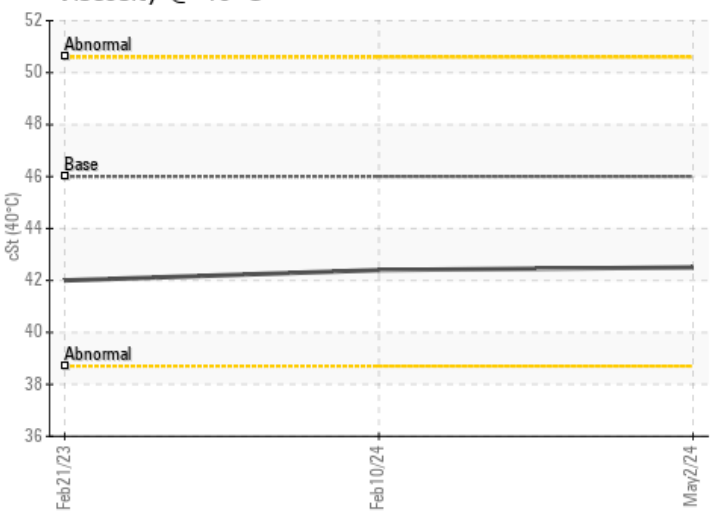
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number