



# CONSTRUCTION EQUIPMENT

## A13000 VOLVO L180H 5740 - HYDRAULIC SYSTEM



**Sample No:** VCP439833  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** A13000



### SAMPLE INFORMATION

Sample Number	VCP439833	VCP412364	VCP429635	VCP439305
Sample Date	09 Jul 2024	13 May 2024	22 Mar 2024	24 Jan 2024
Machine Hours	2800	2345	1960	1505
Oil Hours	2800	1500	0	1505
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

**WASTE MANAGEMENT - TELFORD**  
 400 PROGRESS DR  
 TELFORD, PA  
 US 18969-1191  
 Contact: EDWARD ROGENER  
 erogener@wm.com  
 T:  
 F:

### OIL CONDITION

Visc @ 40°C	cSt	41.0	42.0	42.3	42.3
Acid Number (AN)	mg KOH/g	0.28	0.25	0.26	0.26

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1008	3912	4292	9648
Particles >6µm		263	577	1254	1868
Particles >14µm		17	23	114	103
ISO 4406:1999 (c)		17/15/11	19/16/12	19/17/14	20/18/14
Silicon	ppm	1	<1	<1	1
Sodium	ppm	0	2	<1	0
Potassium	ppm	1	<1	0	<1

**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.

### WEAR METALS

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

### ADDITIVES

Calcium	ppm	57	55	51	63
Magnesium	ppm	2	0	0	1
Zinc	ppm	442	407	426	444
Phosphorus	ppm	321	317	322	340
Barium	ppm	0	0	0	13
Boron	ppm	0	0	0	0

**Depot:** WASTEL  
**Unique No:** 11124684  
**Signed:** Don Baldrige  
**Report Date:** 16 Jul 2024

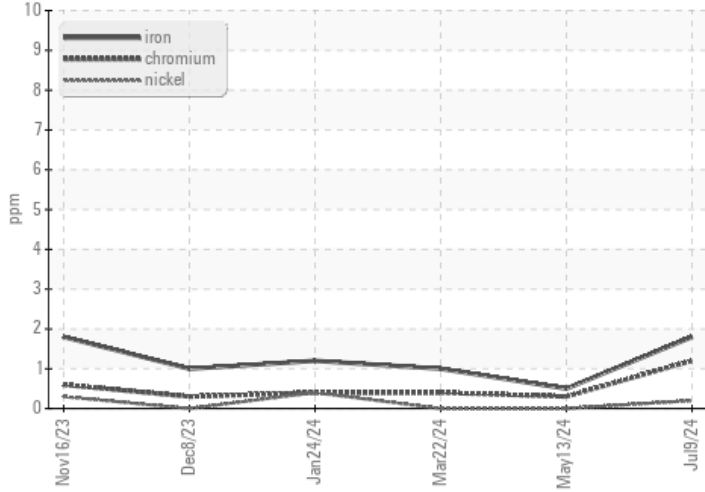


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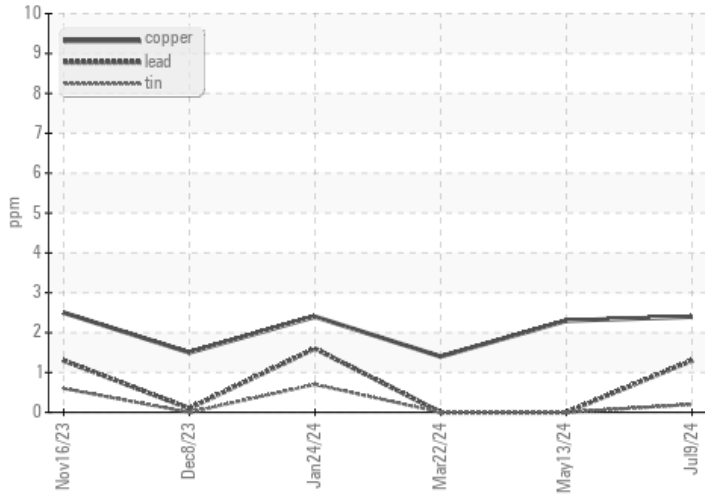


## GRAPHS

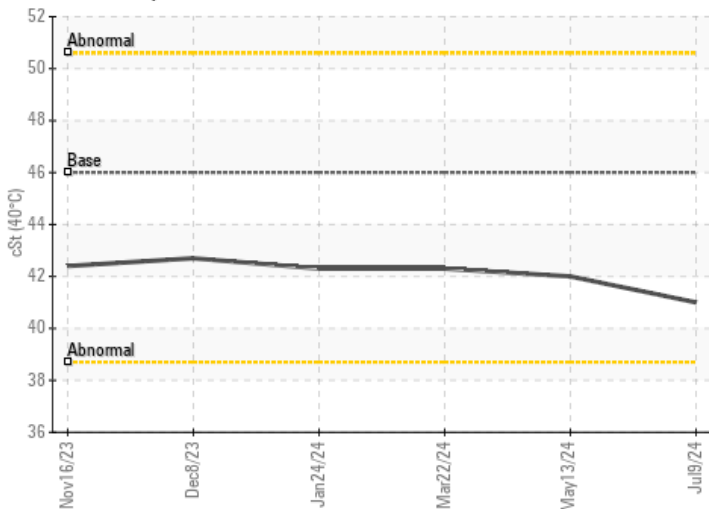
### Ferrous Alloys



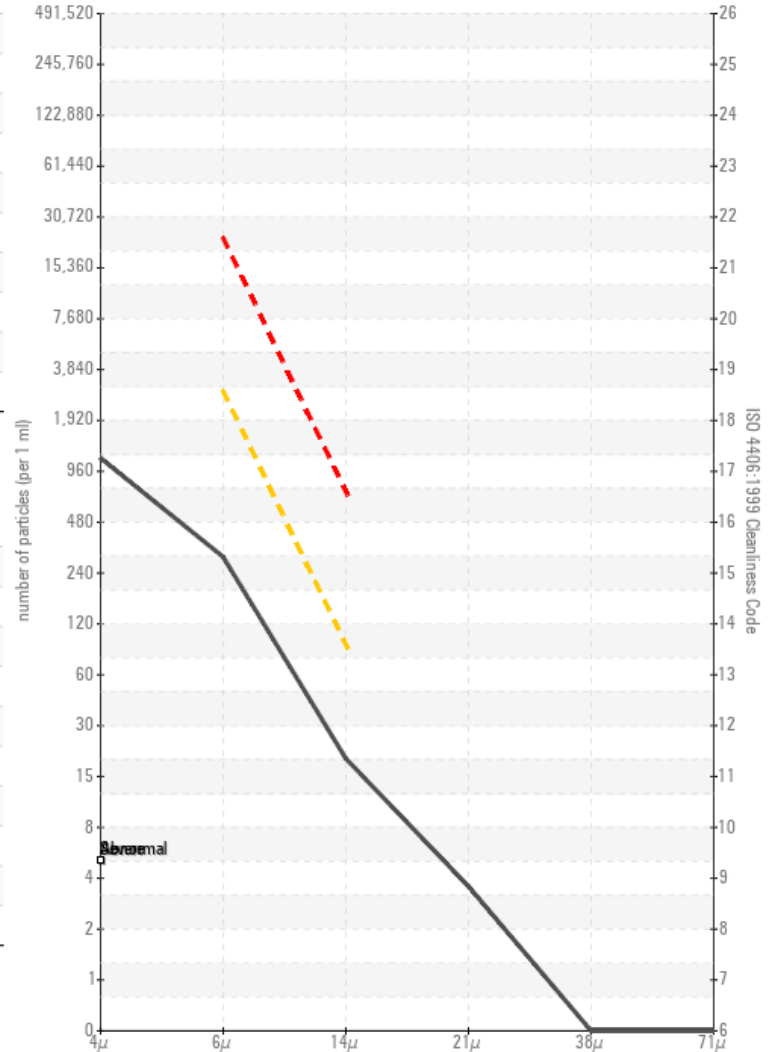
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

