CONSTRUCTION EQUIPMENT

331624 CITY OF TAMPA VOLVO L180H 5423 - HYDRAULIC SYSTEM

Sample No: VCP422683
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 331624 CITY OF TAMPA

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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SAMPLE INFORMATION

Sample Number		**VCP422683**	VCP364323	VCP357435	---
Sample Date		**15 Aug 2023**	11 Aug 2022	05 Apr 2022	---
Machine Hours		**8689**	5393	4314	---
Oil Hours		**4000**	500	4314	---
Oil Changed		**Changed**	Not Changd	Changed	---
Sample Status		**ABNORMAL**	NORMAL	ABNORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	**40.6**	41.8	41.6	---
Acid Number (AN)	mg KOH/g	**0.33**	0.32	0.35	---

CONTAMINATION

Particles >4µm		**11062**	4797	15734	---
Particles >6µm		**2671**	1068	790	---
Particles >14µm		**257**	82	25	---
ISO 4406:1999 (c)		**21/19/15**	19/17/14	21/17/12	---
Silicon	ppm	**2**	2	<1	---
Sodium	ppm	**4**	<1	0	---
Potassium	ppm	**<1**	0	2	---

WEAR METALS

Iron	ppm	**5**	3	3	---
Copper	ppm	**3**	2	3	---
Lead	ppm	**2**	1	2	---
Tin	ppm	**0**	<1	<1	---
Aluminum	ppm	**1**	2	<1	---
Chromium	ppm	**10**	3	4	---
Molybdenum	ppm	**3**	3	0	---
Nickel	ppm	**0**	<1	0	---
Titanium	ppm	**0**	0	0	---
Silver	ppm	**0**	4	0	---
Manganese	ppm	**0**	0	0	---
Vanadium	ppm	**<1**	0	0	---

ADDITIVES

Calcium	ppm	**70**	102	42	---
Magnesium	ppm	**6**	5	<1	---
Zinc	ppm	**455**	441	362	---
Phosphorus	ppm	**356**	341	278	---
Barium	ppm	**0**	0	0	---
Boron	ppm	**0**	5	0	---

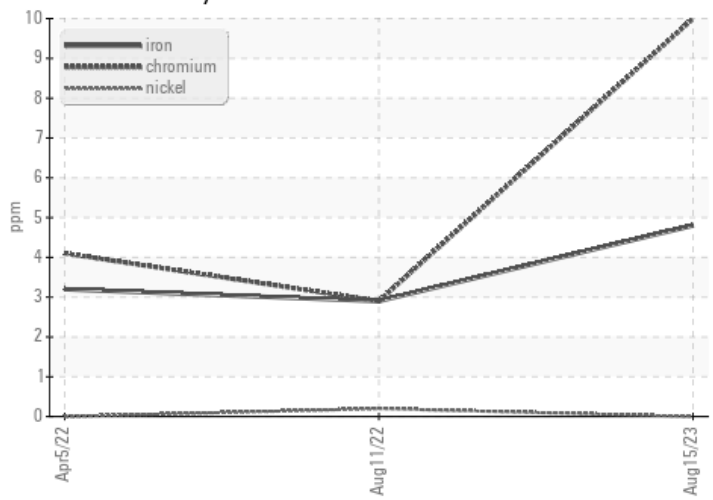
Diagnosis

The filter 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 silt (particulates < 14 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.

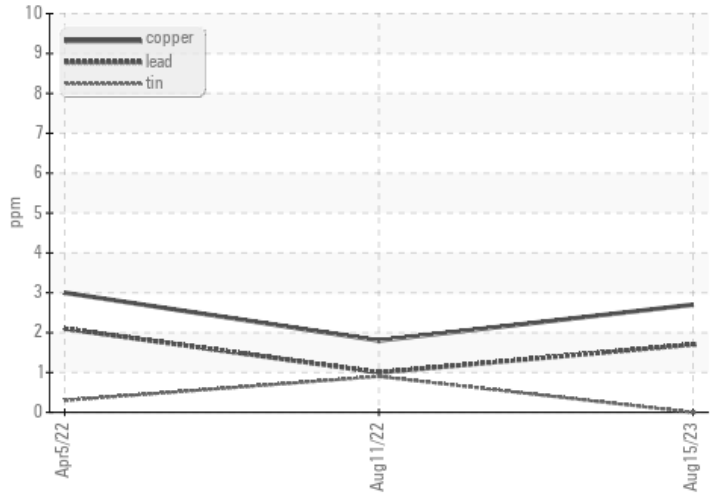
Depot: VOLVO0093
Unique No: 10636249
Signed: Wes Davis
Report Date: 11 Sep 2023

GRAPHS

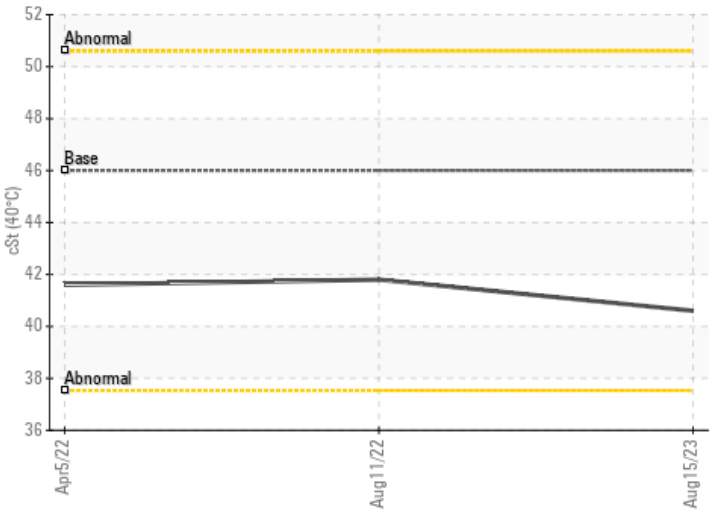
Ferrous Alloys



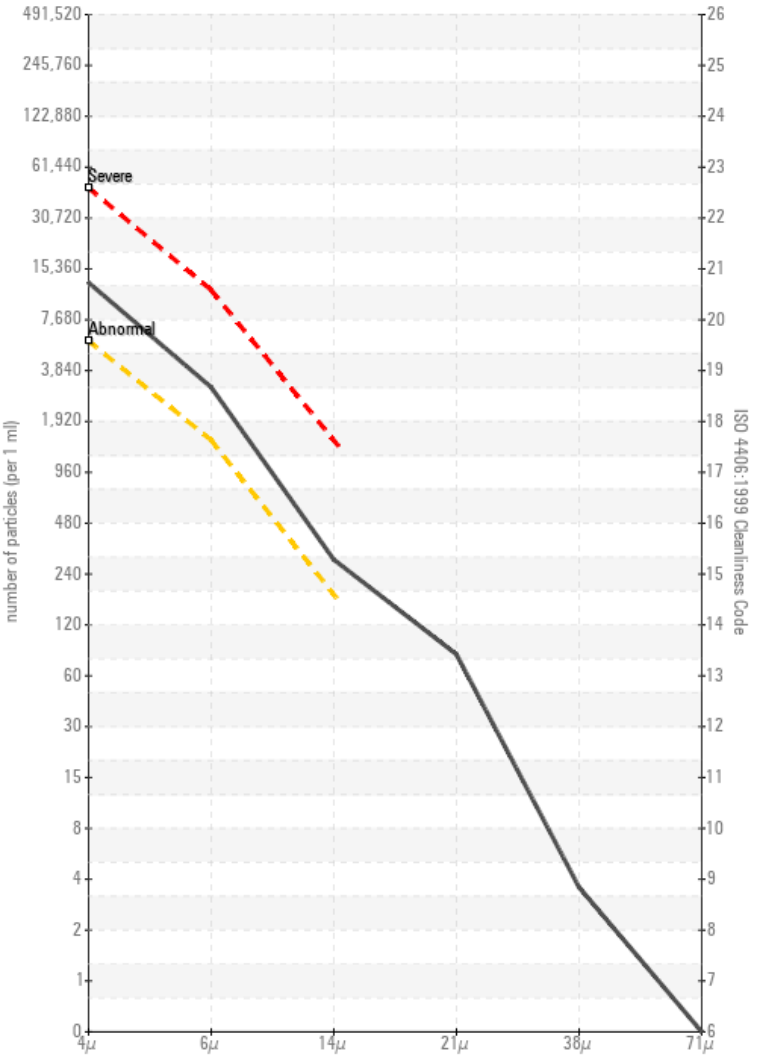
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number