



CONSTRUCTION EQUIPMENT

SWA058525-10 VOLVO L180H 5418 - HYDRAULIC SYSTEM



Sample No: VCP365588
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA058525-10



SAMPLE INFORMATION

Sample Number	VCP365588	VCP331082	VCP324758	VCP291462
Sample Date	13 Sep 2022	29 Nov 2021	09 Jun 2021	26 Oct 2020
Machine Hours	3034	2239	997	575
Oil Hours	0	0	997	575
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	ABNORMAL

ALTA EQUIPMENT

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 SYRACUSE, NY
 US 13206
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OIL CONDITION

Visc @ 40°C	cSt	42.0	42.7	43.1	---
Acid Number (AN)	mg KOH/g	0.35	0.327	0.305	---



CONTAMINATION

Particles >4µm		4027	8965	3208	28063
Particles >6µm		1100	1206	652	7058
Particles >14µm		34	92	61	287
ISO 4406:1999 (c)		19/17/12	20/17/14	19/17/13	22/20/15
Silicon	ppm	3	3	2	2
Sodium	ppm	1	0	0	3
Potassium	ppm	0	0	<1	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.



WEAR METALS

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



ADDITIVES

Calcium	ppm	44	46	50	36
Magnesium	ppm	0	0	<1	<1
Zinc	ppm	385	368	435	387
Phosphorus	ppm	307	316	326	303
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	<1	2

Depot: VOLV00142
Unique No: 10139314
Signed: Wes Davis
Report Date: 20 Sep 2022

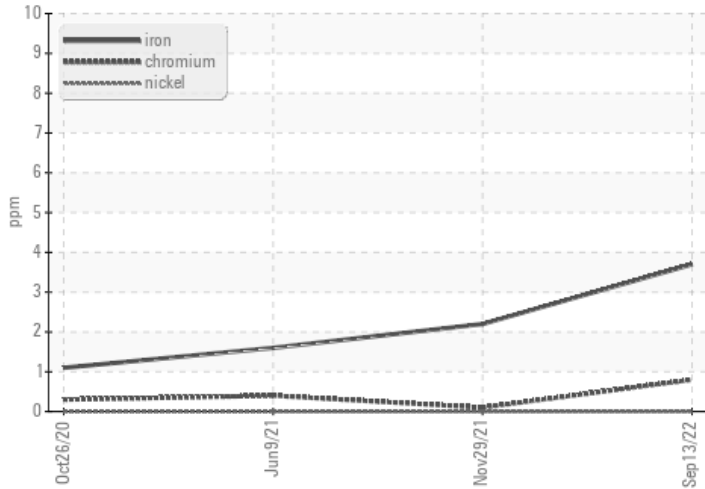


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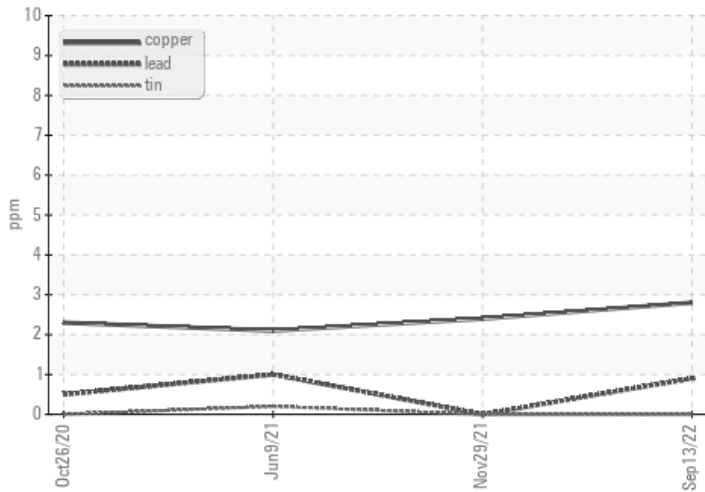


GRAPHS

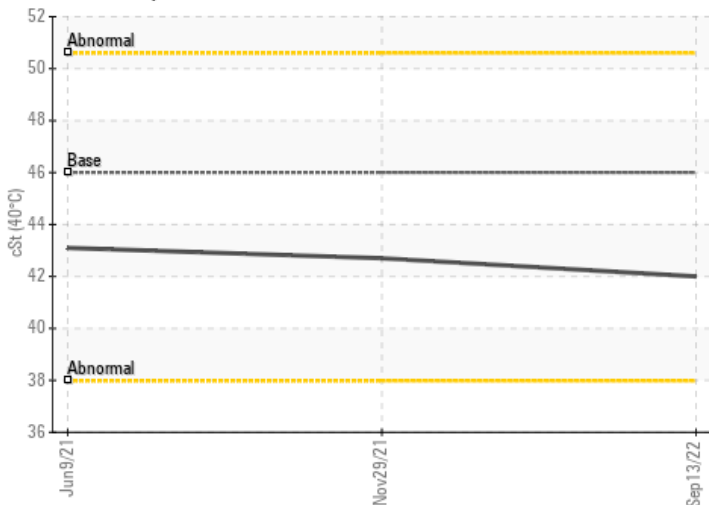
Ferrous Alloys



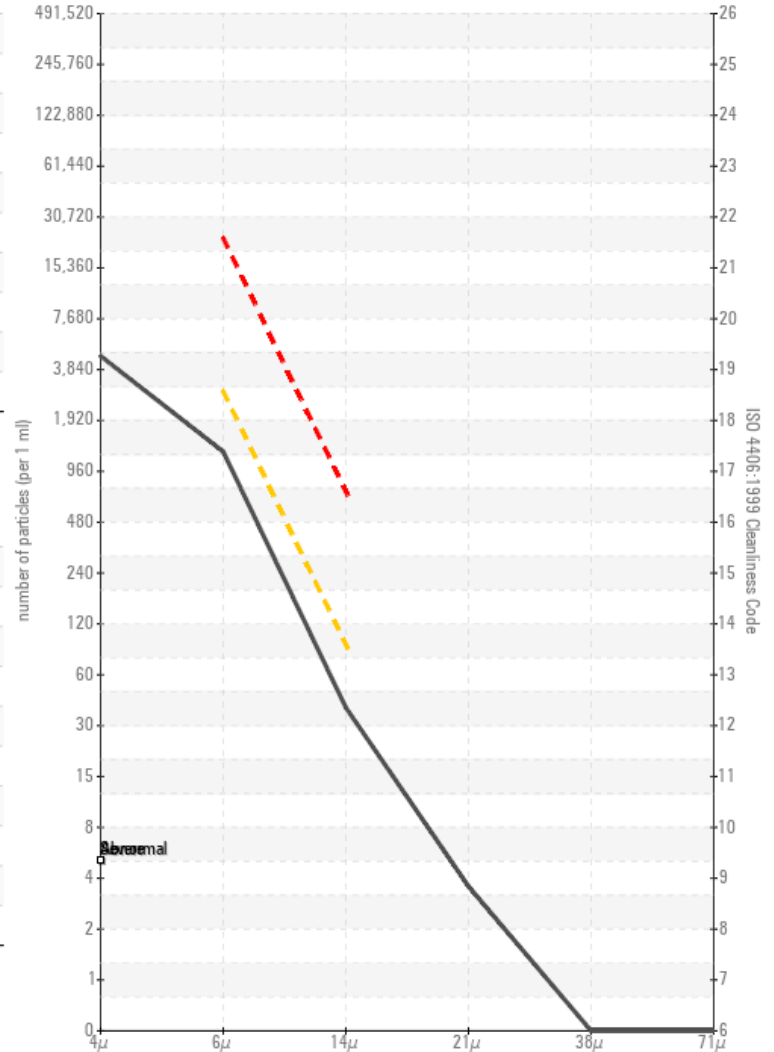
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

