



CONSTRUCTION EQUIPMENT

SWA275711-10 VOLVO L70H 623404 - HYDRAULIC SYSTEM



Sample No: VCP396051
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA275711-10



SAMPLE INFORMATION

Sample Number	VCP396051	VCP367840	VCP372000	VCP322245
Sample Date	09 Jun 2023	15 Dec 2022	15 Aug 2022	16 May 2022
Machine Hours	8270	7328	6731	6283
Oil Hours	0	0	0	2000
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ATTENTION	NORMAL	ATTENTION

DENALI WE CARE

400 TORNE RD
 HILLBURN, NY
 US 10931
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	42.0	38.7	42.6	42.6
Acid Number (AN)	mg KOH/g	0.45	0.41	0.55	0.53

T:
F:



CONTAMINATION

Particles >4µm	15805	8133	2226	6704	
Particles >6µm	4671	2557	154	1058	
Particles >14µm	419	162	17	56	
ISO 4406:1999 (c)	21/19/16	20/19/15	18/14/11	20/17/13	
Silicon	ppm	2	2	4	4
Sodium	ppm	0	0	5	4
Potassium	ppm	<1	<1	0	0

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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.



WEAR METALS

Iron	ppm	6	5	9	9
Copper	ppm	1	1	2	2
Lead	ppm	<1	<1	2	2
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	<1	<1	2	1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	385	453	834	942
Magnesium	ppm	6	6	7	6
Zinc	ppm	529	544	604	669
Phosphorus	ppm	412	415	510	508
Barium	ppm	0	1	0	0
Boron	ppm	10	11	27	31

Depot: DENHIL
Unique No: 10604749
Signed: Wes Davis
Report Date: 16 Aug 2023

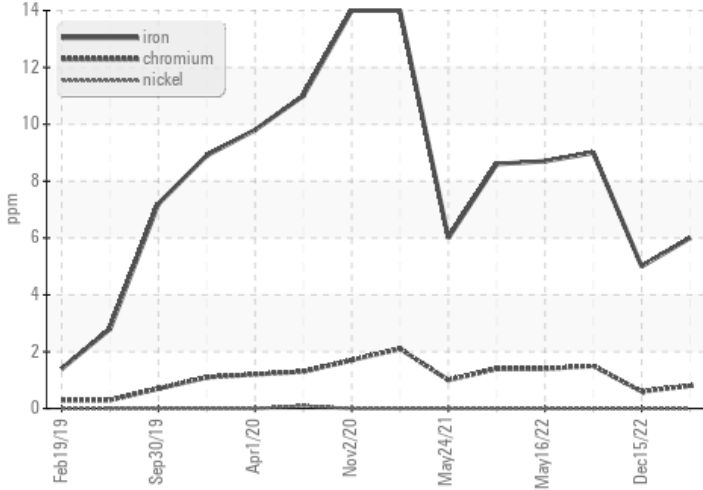


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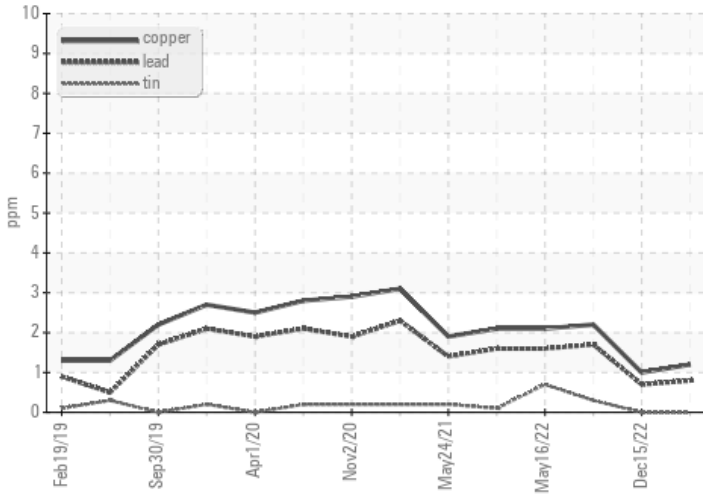


GRAPHS

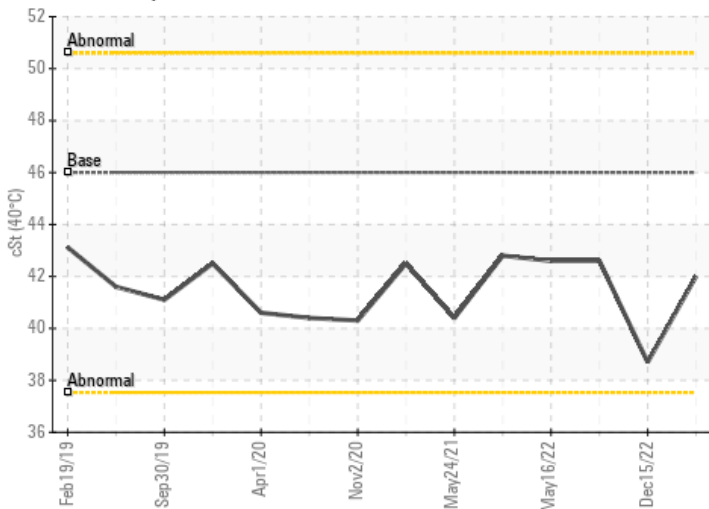
Ferrous Alloys



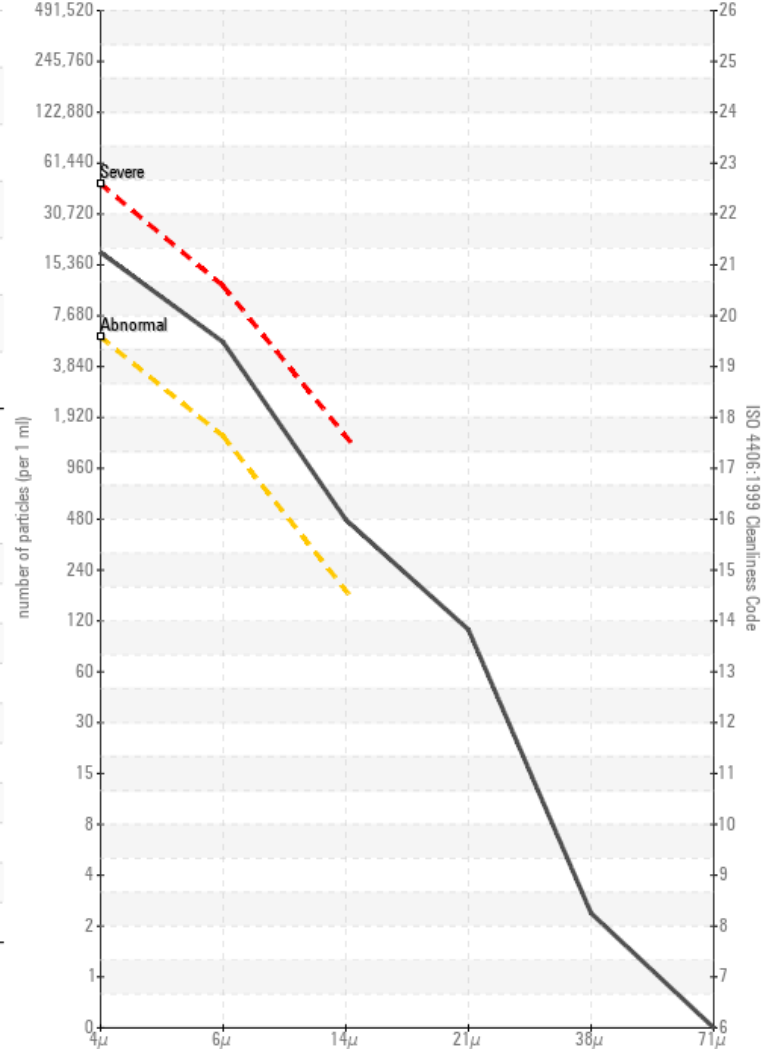
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

