



CONSTRUCTION EQUIPMENT

SWA549039-10 VOLVO L220H 2933 - HYDRAULIC SYSTEM



Sample No: VCP431682
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA549039-10



SAMPLE INFORMATION

Sample Number	VCP431682	VCP424084	VCP364970	VCP359949
Sample Date	07 May 2024	07 Sep 2023	26 Aug 2022	15 Apr 2022
Machine Hours	6909	9700	4665	4205
Oil Hours	0	0	0	500
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

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

OIL CONDITION

Visc @ 40°C	cSt	40.4	40.9	41.7	38.9
Acid Number (AN)	mg KOH/g	0.27	0.22	0.32	0.33

T:
F:

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		10443	1652	2479	7129
Particles >6µm		2046	332	588	555
Particles >14µm		121	21	58	44
ISO 4406:1999 (c)		21/18/14	18/16/12	18/16/13	20/16/13
Silicon	ppm	2	2	<1	2
Sodium	ppm	2	1	0	0
Potassium	ppm	0	0	1	2

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

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

ADDITIVES

Calcium	ppm	81	87	84	133
Magnesium	ppm	1	2	<1	2
Zinc	ppm	439	435	447	448
Phosphorus	ppm	358	234	337	337
Barium	ppm	<1	0	0	0
Boron	ppm	0	0	<1	3

Depot: DENHIL
Unique No: 11029969
Signed: Wes Davis
Report Date: 15 May 2024

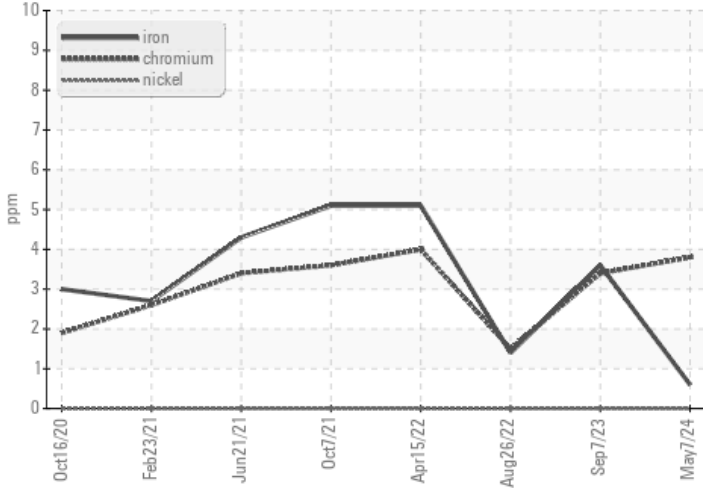


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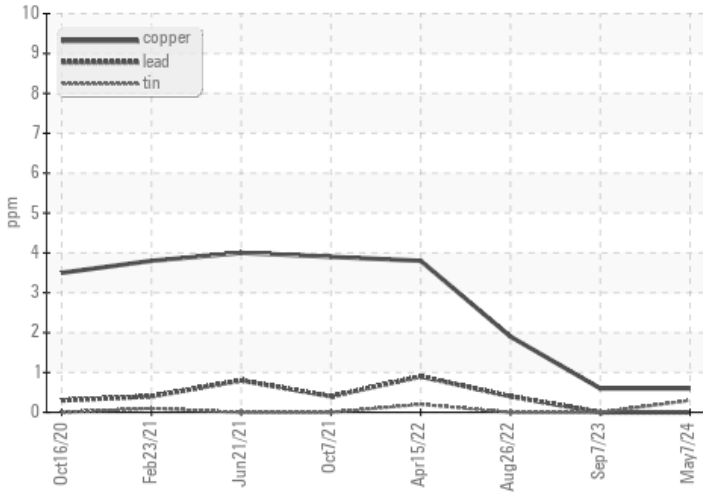


GRAPHS

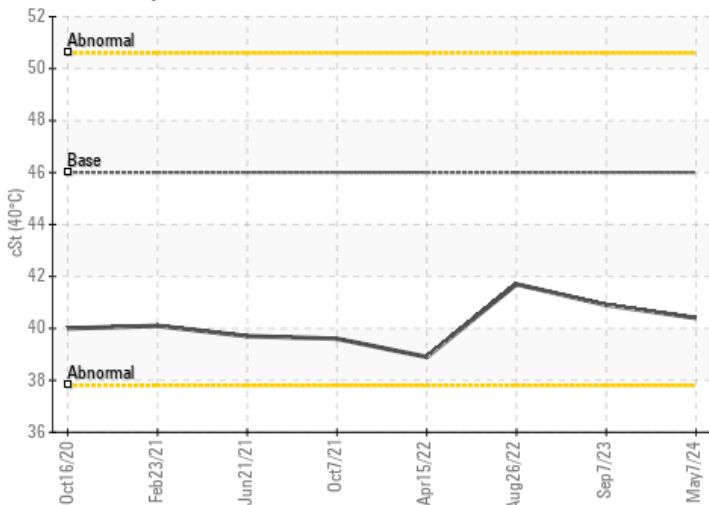
Ferrous Alloys



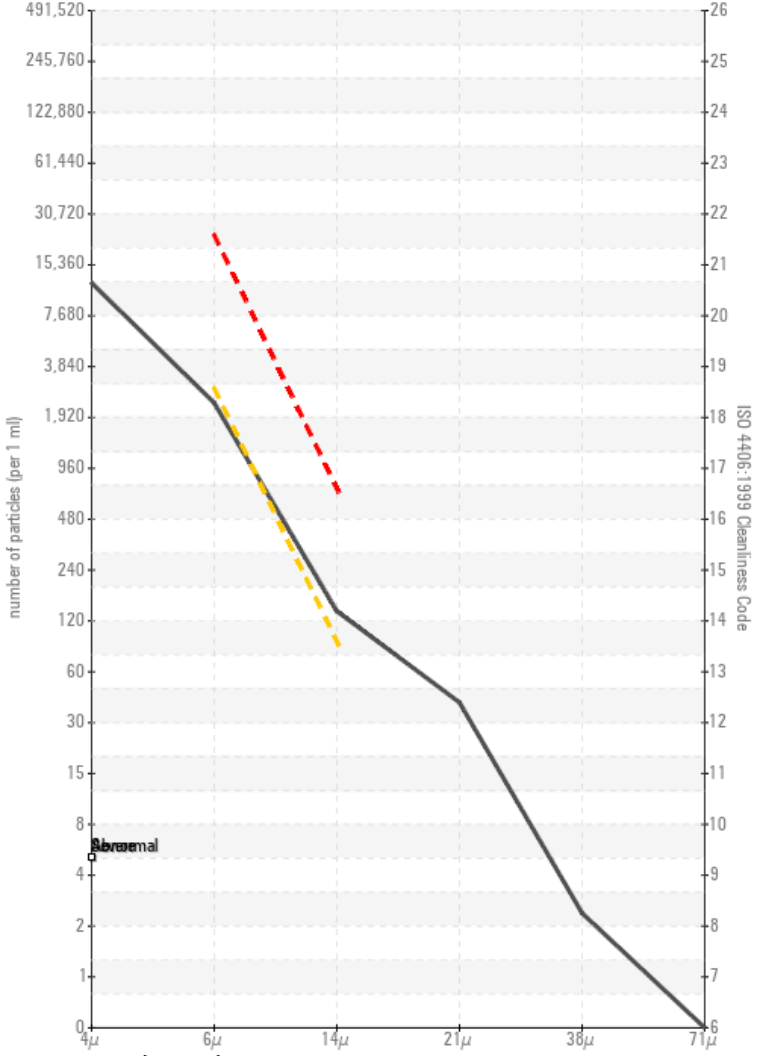
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

