



CONSTRUCTION EQUIPMENT

SPM633729 VOLVO L120H 632945 - HYDRAULIC SYSTEM



Sample No: VCP429074
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM633729



SAMPLE INFORMATION

Sample Number	VCP429074	VCP427361	VCP423155	VCP405714
Sample Date	10 Nov 2023	28 Sep 2023	18 Jul 2023	12 May 2023
Machine Hours	4002	3586	3117	2627
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

OZINGA BROS INC
 19001 OLD LAGRANDE RD
 MOKENA, IL
 US 60448
 Contact: ED JONGSMA



OIL CONDITION

Visc @ 40°C	cSt	41.3	41.6	41.9	42.3
Acid Number (AN)	mg KOH/g	0.33	0.42	0.33	0.30

T: (708)326-4200
 F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		28102	9367	2729	2528
Particles >6µm		8309	2755	500	449
Particles >14µm		326	194	23	31
ISO 4406:1999 (c)		22/20/16	20/19/15	19/16/12	19/16/12
Silicon	ppm	2	2	2	3
Sodium	ppm	2	<1	0	1
Potassium	ppm	0	0	<1	1

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.



WEAR METALS

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



ADDITIVES

Calcium	ppm	56	63	67	77
Magnesium	ppm	0	3	4	4
Zinc	ppm	366	415	464	442
Phosphorus	ppm	288	332	351	355
Barium	ppm	0	0	2	0
Boron	ppm	0	0	0	0

Depot: OZIMOKVC
Unique No: 10766941
Signed: Wes Davis
Report Date: 04 Dec 2023

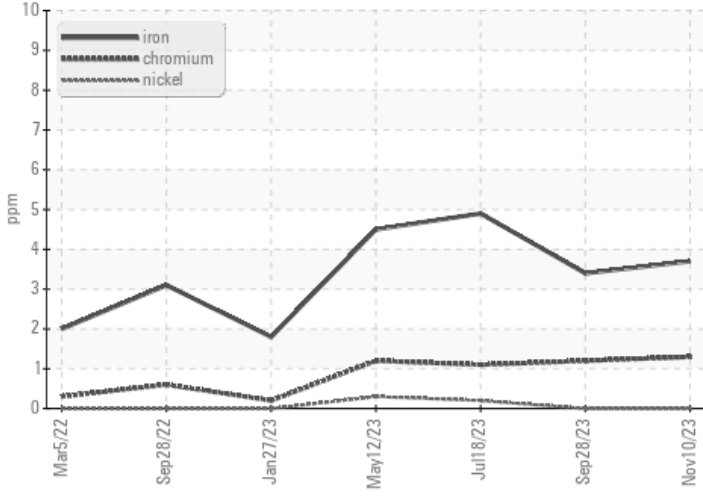


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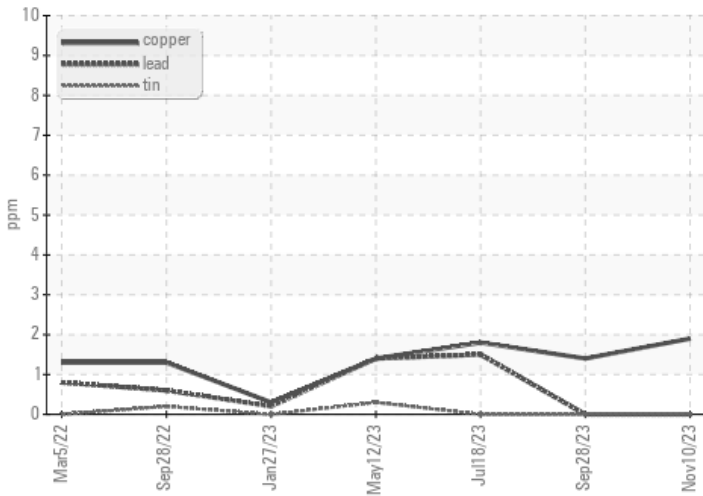


GRAPHS

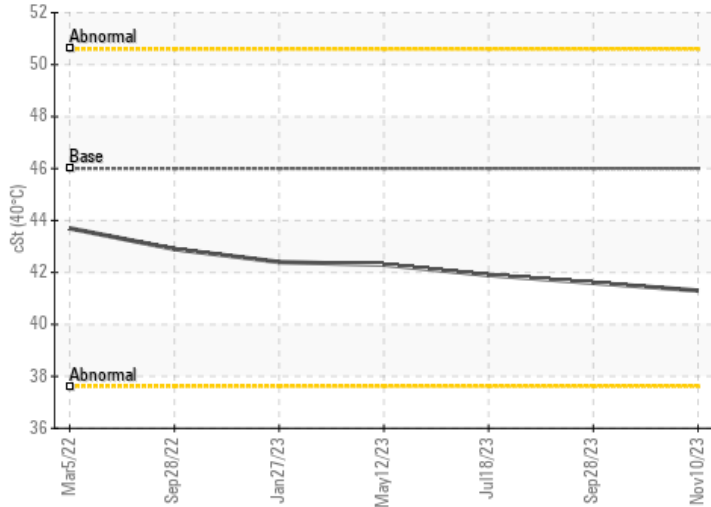
Ferrous Alloys



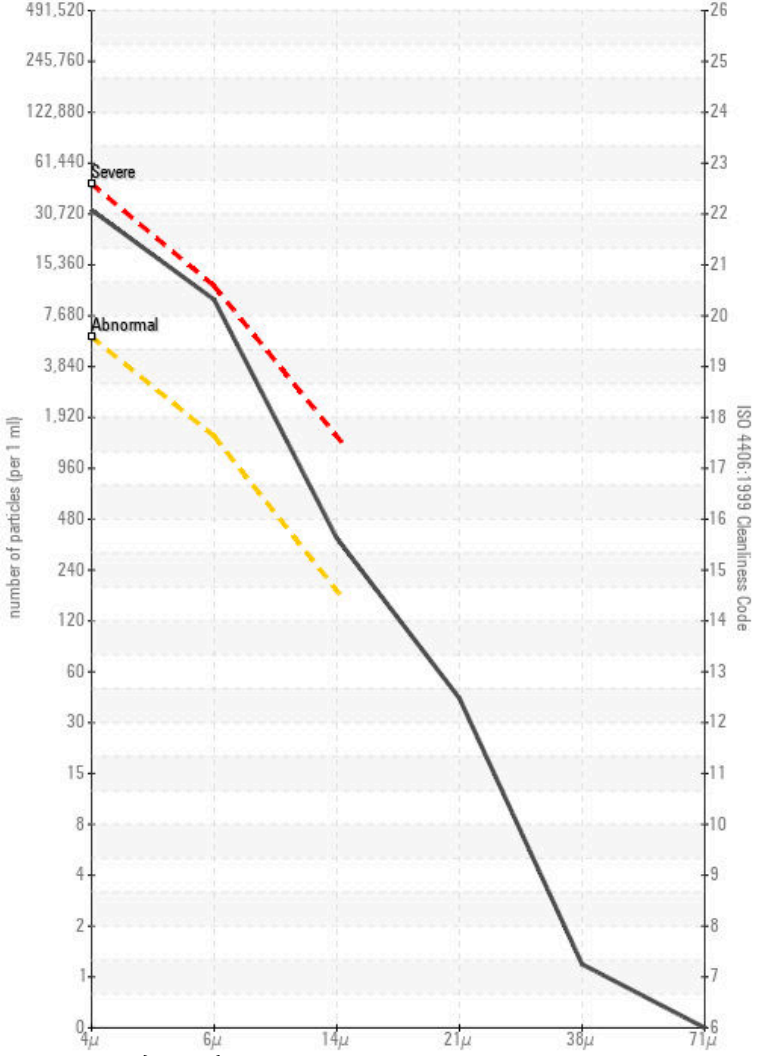
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

