



CONSTRUCTION EQUIPMENT

633991 MOSAIC VOLVO L220H 3205 - HYDRAULIC SYSTEM



Sample No: VCP429930
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 633991 MOSAIC



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 john.fardella@altg.com
 T: (813)630-0077
 F: (813)630-2233

SAMPLE INFORMATION

Sample Number	VCP429930	VCP403000	VCP364391	VCP350099
Sample Date	17 Nov 2023	16 Feb 2023	23 Aug 2022	02 Feb 2022
Machine Hours	6388	5406	4493	3230
Oil Hours	2388	1400	1500	3230
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	41.4	44.0	38.6	39.0
Acid Number (AN)	mg KOH/g	0.27	0.36	0.41	0.37

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7276	2566	4323	4514
Particles >6µm		1936	450	461	992
Particles >14µm		109	29	31	75
ISO 4406:1999 (c)		20/18/14	19/16/12	19/16/12	19/17/13
Silicon	ppm	5	5	5	5
Sodium	ppm	0	<1	0	0
Potassium	ppm	2	0	0	1

WEAR METALS

Iron	ppm	4	5	5	0
Copper	ppm	7	3	12	12
Lead	ppm	2	0	2	2
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	1	2	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	1	<1	<1	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	118	48	59	61
Magnesium	ppm	5	1	6	7
Zinc	ppm	439	357	410	430
Phosphorus	ppm	297	304	324	317
Barium	ppm	0	0	0	0
Boron	ppm	1	0	<1	0

Diagnosis

The filter change at the time of sampling has been noted. 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.

Depot: VOLVO0093
Unique No: 10764996
Signed: Wes Davis
Report Date: 30 Nov 2023

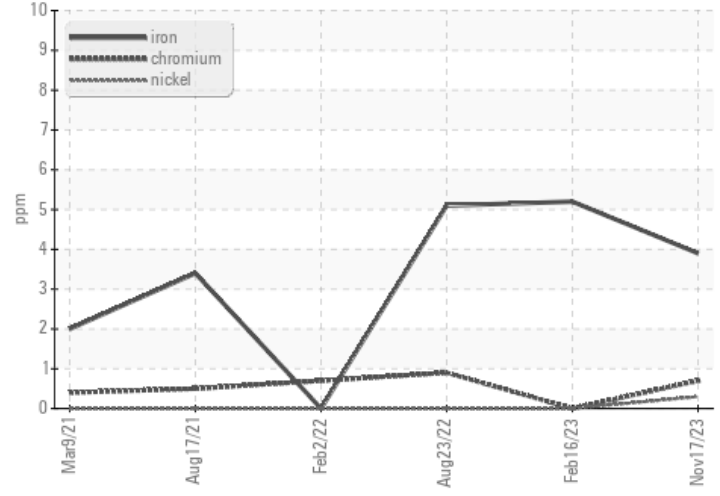


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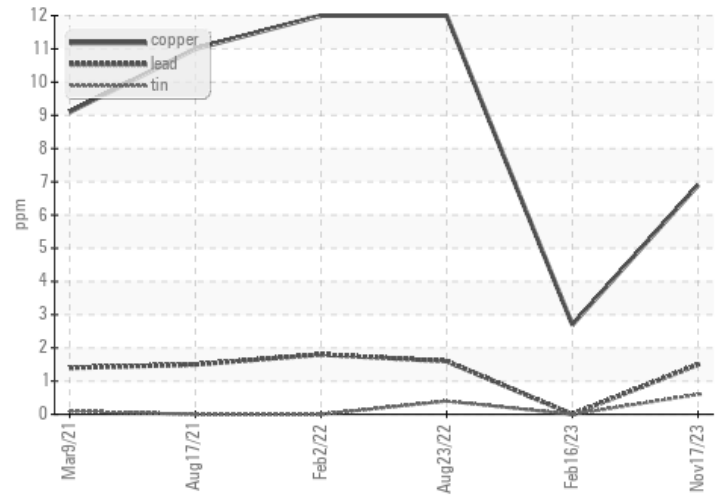


GRAPHS

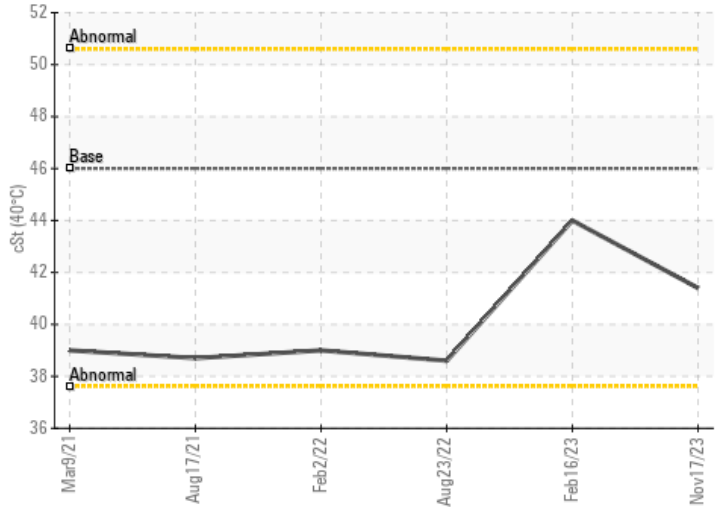
Ferrous Alloys



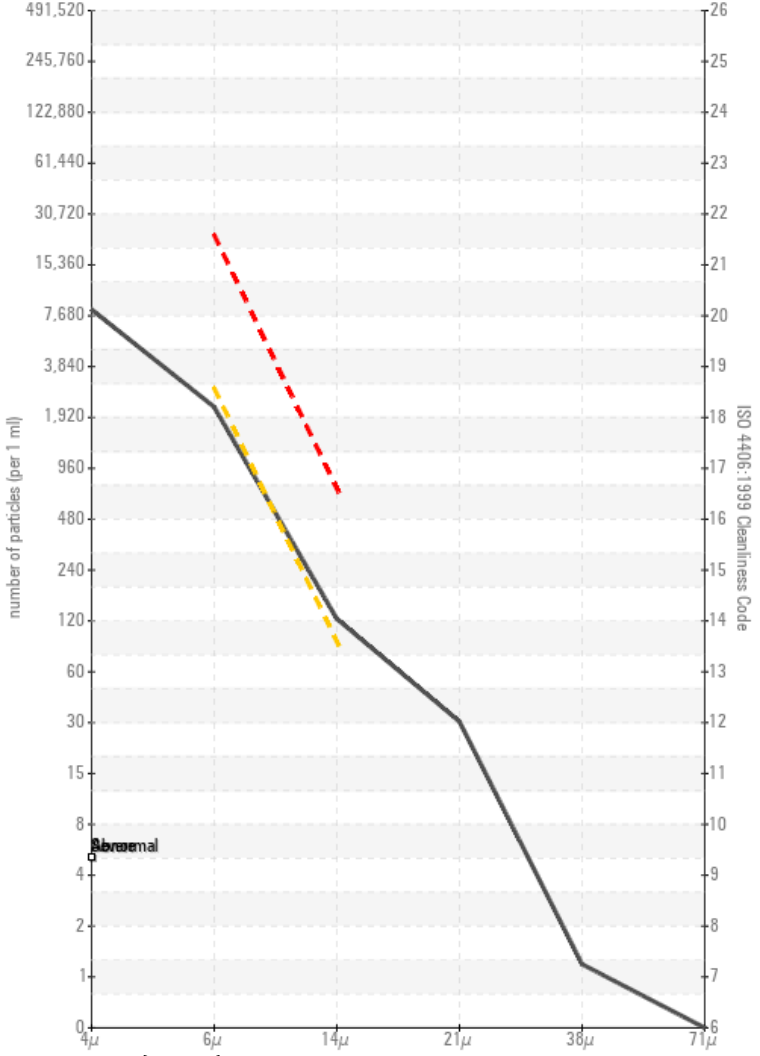
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

