



CONSTRUCTION EQUIPMENT

566232 NA MINING VOLVO L150H 6491 - HYDRAULIC SYSTEM



Sample No: VCP417583
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 566232 NA MINING



SAMPLE INFORMATION

Sample Number	VCP417583	VCP353993	VCP343825	VCP279213
Sample Date	14 Jun 2023	22 Aug 2022	02 Nov 2021	28 Oct 2020
Machine Hours	4891	3814	2049	1132
Oil Hours	891	500	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	53.3	53.5	▲ 56.6	40.3
Acid Number (AN)	mg KOH/g	0.51	0.57	0.328	0.404



CONTAMINATION

Particles >4µm		▲ 13216	▲ 11971	---	▲ 8796
Particles >6µm		▲ 4223	▲ 2771	---	1147
Particles >14µm		▲ 426	▲ 225	---	62
ISO 4406:1999 (c)		21/19/16	21/19/15	---	20/17/13
Silicon	ppm	6	6	2	2
Sodium	ppm	0	2	0	2
Potassium	ppm	2	2	0	0

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 high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	4	3	3	3
Copper	ppm	3	2	2	16
Lead	ppm	1	1	1	3
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	1	0	0
Chromium	ppm	0	0	<1	1
Molybdenum	ppm	2	2	3	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1652	1646	158	119
Magnesium	ppm	17	18	23	<1
Zinc	ppm	823	850	353	452
Phosphorus	ppm	640	651	282	353
Barium	ppm	0	0	0	0
Boron	ppm	51	47	2	6

Depot: VOLVO0093
Unique No: 10550748
Signed: Don Baldrige
Report Date: 12 Jul 2023

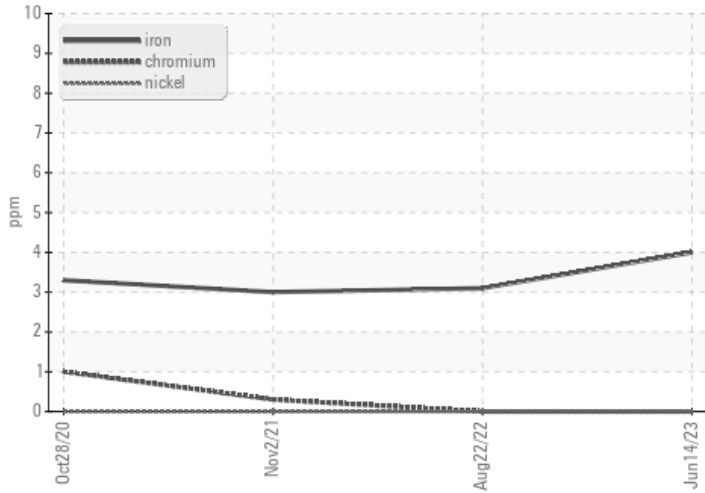


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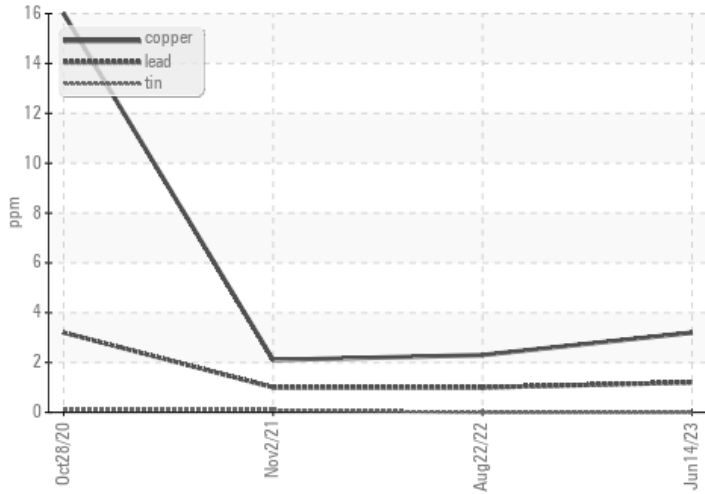


GRAPHS

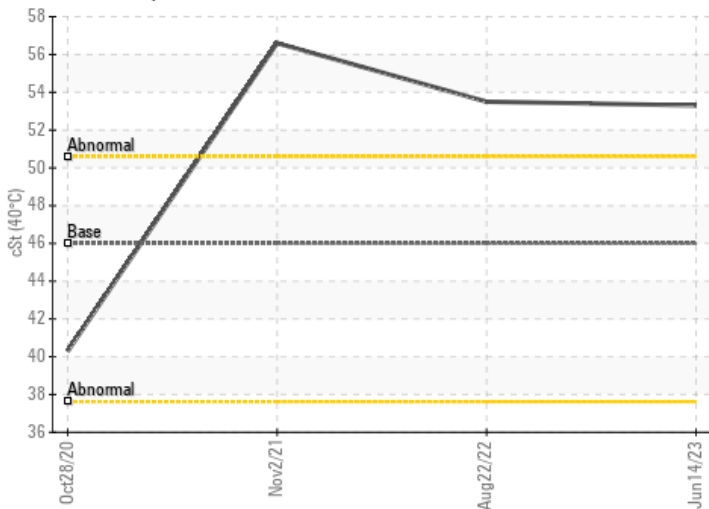
Ferrous Alloys



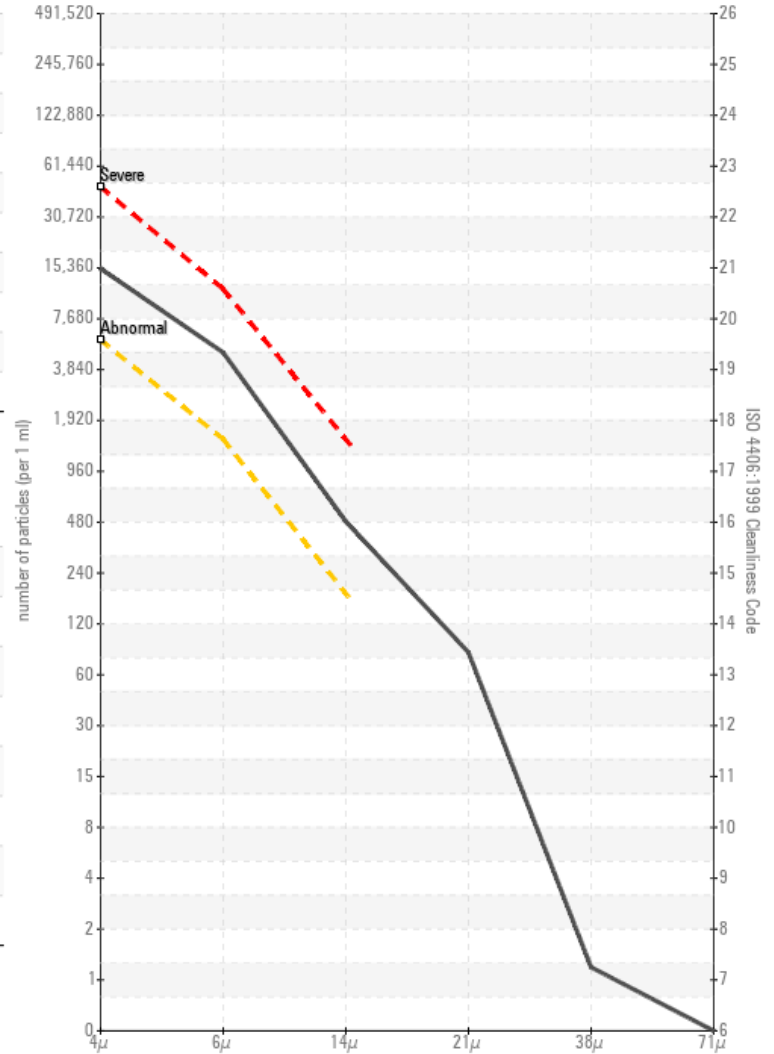
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

