



CONSTRUCTION EQUIPMENT

SPM689359 RENTAL VOLVO L120H 632941 - HYDRAULIC SYSTEM



Sample No: VCP439354
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM689359 RENTAL



SAMPLE INFORMATION

Sample Number	VCP439354	VCP423165	VCP423170	VCP366910
Sample Date	04 Apr 2024	21 Jun 2023	21 Jun 2023	14 Sep 2022
Machine Hours	3974	2611	2611	2013
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	ATTENTION	ATTENTION	ATTENTION

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 5000 INDUSTRIAL HWY
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OIL CONDITION

Visc @ 40°C	cSt	42.6	41.4	42.9	43.5
Acid Number (AN)	mg KOH/g	0.26	0.27	0.25	0.33



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 11112	● 5857	● 7694	● 5997
Particles >6µm		● 1484	■ 1243	■ 1173	■ 813
Particles >14µm		■ 41	■ 123	■ 51	■ 35
ISO 4406:1999 (c)		21/18/13	20/17/14	20/17/13	20/17/12
Silicon	ppm	■ 4	■ 2	■ 4	■ 3
Sodium	ppm	■ 0	■ 1	■ 1	■ 2
Potassium	ppm	■ 2	■ 1	■ <1	■ 0

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	■ 7	■ 4	■ 6	■ 4
Copper	ppm	■ 4	■ 2	■ 3	■ 2
Lead	ppm	■ 3	■ 1	■ 1	■ 1
Tin	ppm	■ 1	■ 0	■ 0	■ 0
Aluminum	ppm	■ 1	■ 0	■ 0	■ <1
Chromium	ppm	■ 1	■ 1	■ <1	■ <1
Molybdenum	ppm	■ 2	■ 0	■ 1	■ 1
Nickel	ppm	■ 1	■ <1	■ <1	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ 0	■ 0	■ 0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	■ 64	■ 64	■ 58	■ 62
Magnesium	ppm	■ 5	■ 0	■ 3	■ 3
Zinc	ppm	■ 422	■ 428	■ 446	■ 438
Phosphorus	ppm	■ 365	■ 319	■ 333	■ 351
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 0	■ 0	■ 0	■ 0

Depot: VOLVO8885
Unique No: 10977334
Signed: Wes Davis
Report Date: 15 Apr 2024

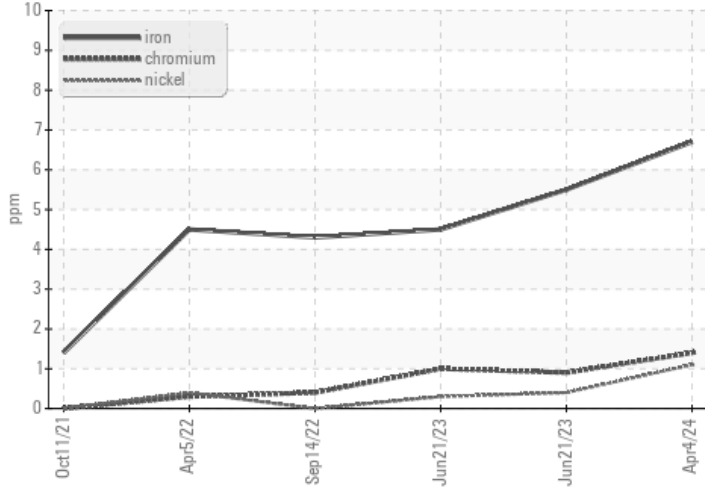


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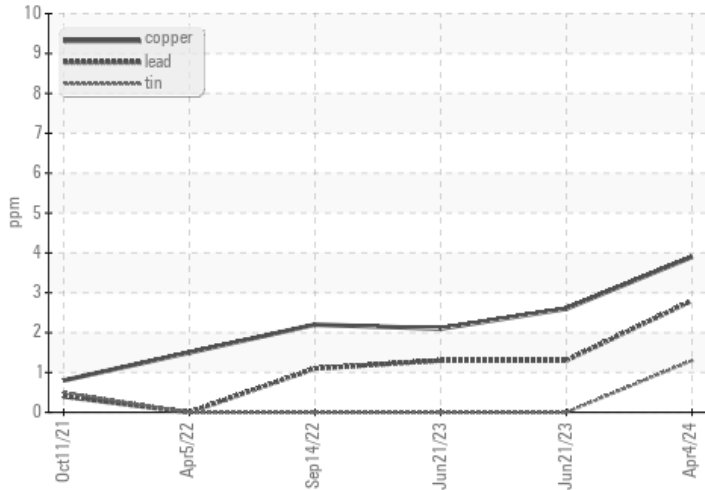


GRAPHS

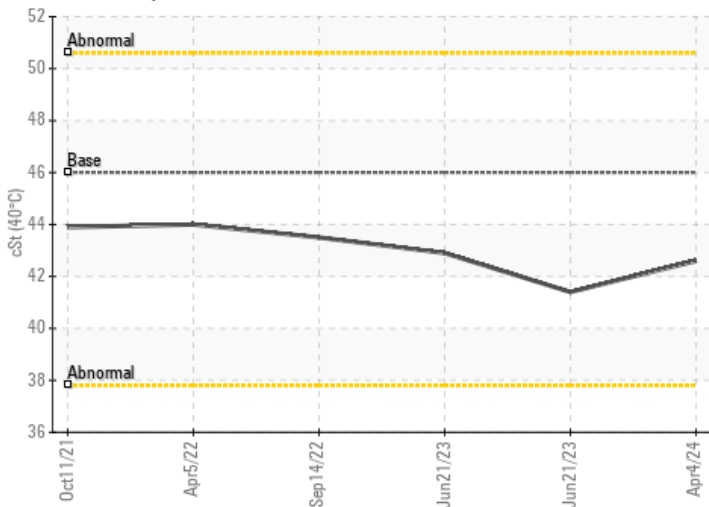
Ferrous Alloys



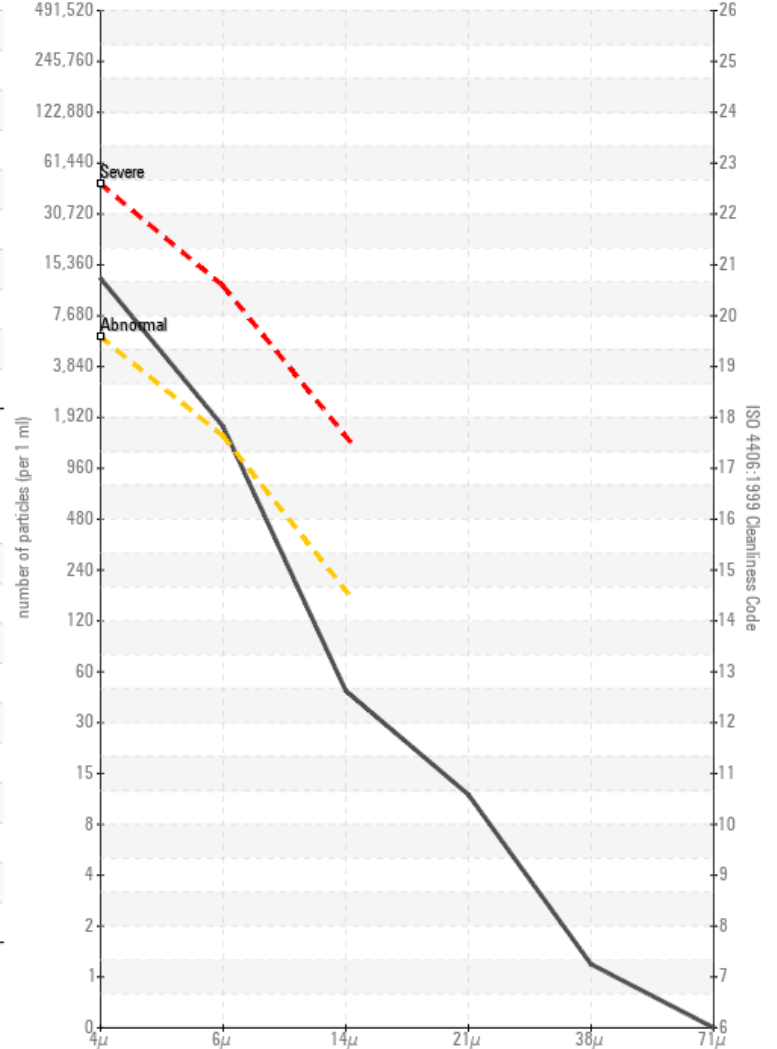
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

