



CONSTRUCTION EQUIPMENT

19804 LKQ VOLVO L90H 624047 - HYDRAULIC SYSTEM



Sample No: VCP412309
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 19804 LKQ



SAMPLE INFORMATION

Sample Number	VCP412309	VCP371668	VCP348166	VCP295551
Sample Date	26 Sep 2023	13 Jul 2022	08 Mar 2022	07 Dec 2020
Machine Hours	11145	9403	0	6372
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	34.3	35.3	35.5	36.7
Acid Number (AN)	mg KOH/g	0.24	0.27	0.30	0.237



CONTAMINATION

Particles >4µm	2881	4308	▲ 17205	392
Particles >6µm	573	1024	▲ 3797	105
Particles >14µm	33	54	▲ 173	14
ISO 4406:1999 (c)	19/16/12	19/17/13	21/19/15	16/14/11
Silicon	ppm	3	2	2
Sodium	ppm	<1	0	<1
Potassium	ppm	<1	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	4	4	3	8
Copper	ppm	1	1	<1	3
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	<1	0	<1	0
Chromium	ppm	<1	<1	<1	3
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	23	35	31	57
Magnesium	ppm	<1	<1	<1	2
Zinc	ppm	262	267	258	302
Phosphorus	ppm	189	225	226	251
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO8769
Unique No: 10701980
Signed: Angela Borella
Report Date: 23 Oct 2023

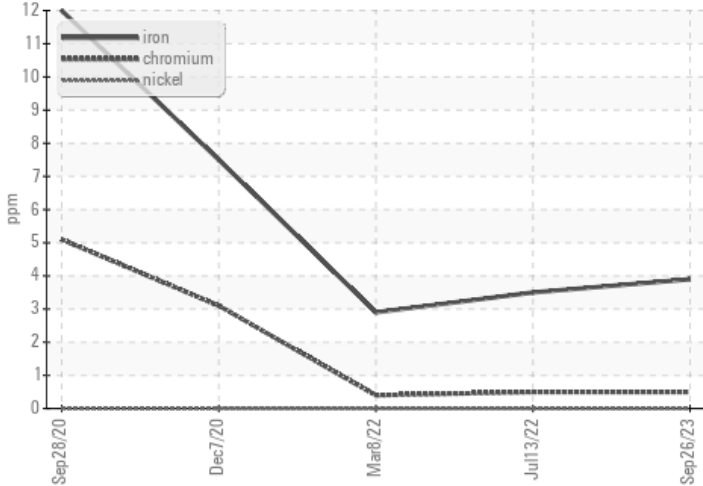


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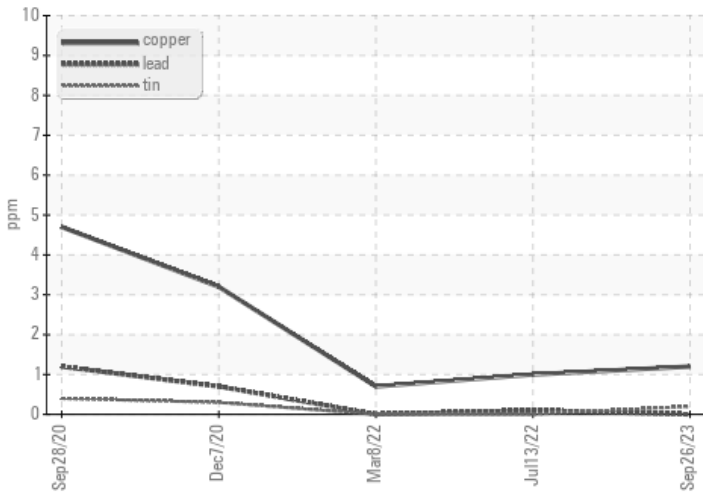


GRAPHS

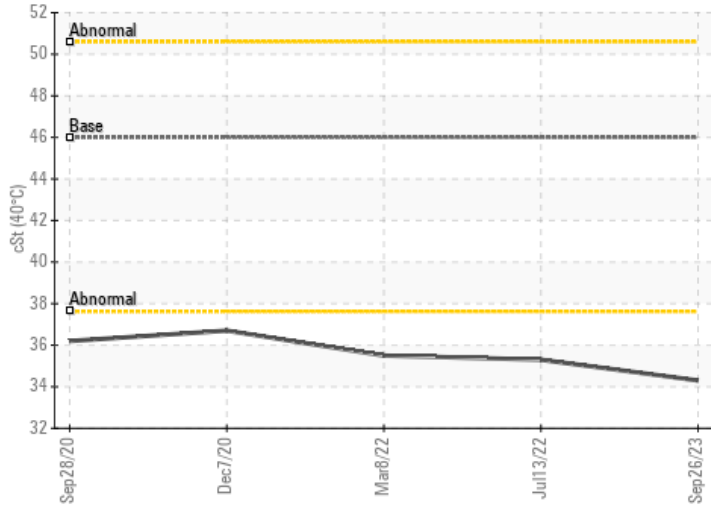
Ferrous Alloys



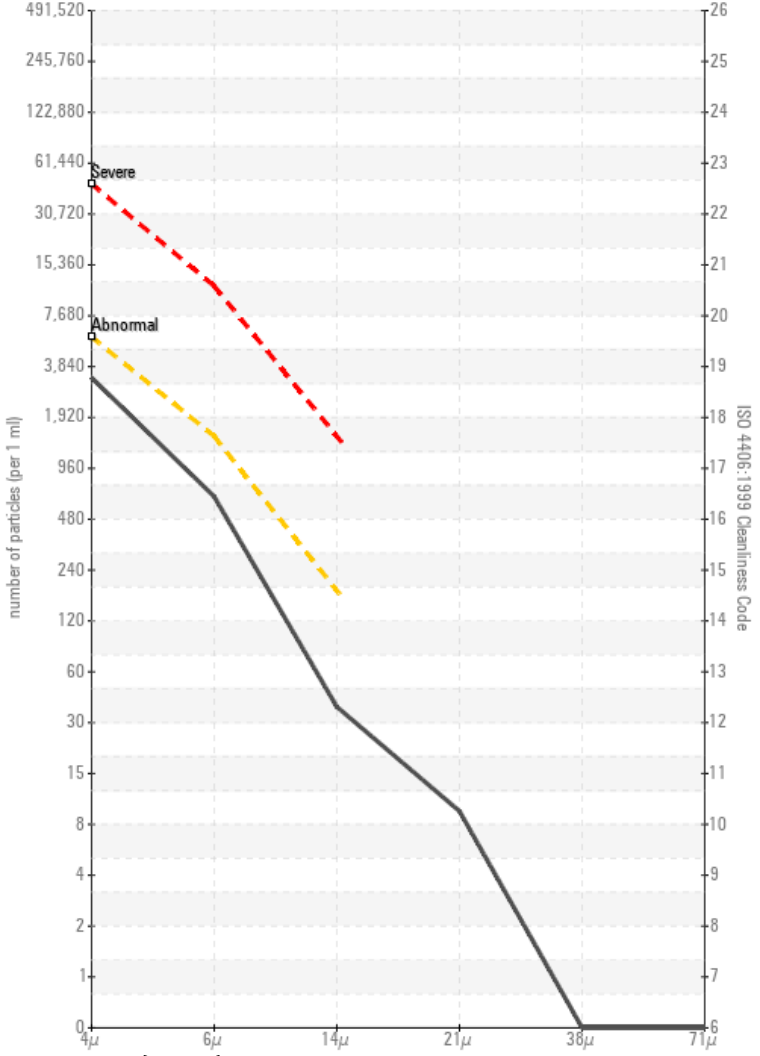
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

