



CONSTRUCTION EQUIPMENT

GENERAL RV VOLVO L20H 1220370 - HYDRAULIC SYSTEM



Sample No: VCP425800
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: GENERAL RV



SAMPLE INFORMATION

Sample Number	VCP425800	VCP423503	VCP386674	VCP385873
Sample Date	17 Jul 2023	31 Mar 2023	22 Dec 2022	20 Sep 2022
Machine Hours	3412	2832	2297	1791
Oil Hours	0	800	500	500
Oil Changed	N/A	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 94.0	■ 41.8	■ 40.4	■ 40.5
Acid Number (AN)	mg KOH/g	■ 0.99	■ 0.32	■ 0.39	■ 0.42

CONTAMINATION

Particles >4µm		171481	1014	1451	8312
Particles >6µm		▲ 18066	■ 300	■ 439	■ 586
Particles >14µm		■ 44	■ 31	■ 29	■ 44
ISO 4406:1999 (c)		25/21/13	17/15/12	18/16/12	20/16/13
Silicon	ppm	■ 5	■ 3	■ 2	■ 4
Sodium	ppm	■ 0	■ 0	■ <1	■ 1
Potassium	ppm	■ 1	■ 0	■ 0	■ <1

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

WEAR METALS

Iron	ppm	■ 4	■ 2	■ 5	■ 3
Copper	ppm	■ <1	■ 2	■ 5	■ 4
Lead	ppm	■ 0	■ 0	■ 1	■ <1
Tin	ppm	■ <1	■ 0	■ 0	■ <1
Aluminum	ppm	■ <1	■ 0	■ 0	■ 2
Chromium	ppm	■ <1	■ 0	■ 0	■ <1
Molybdenum	ppm	▲ 46	■ 0	■ <1	■ <1
Nickel	ppm	■ 0	■ 0	■ 0	■ <1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	1

ADDITIVES

Calcium	ppm	▲ 1676	■ 64	■ 50	■ 30
Magnesium	ppm	▲ 498	■ 10	■ 0	■ 0
Zinc	ppm	▲ 1130	■ 474	■ 387	■ 417
Phosphorus	ppm	■ 940	■ 387	■ 307	■ 323
Barium	ppm	■ 1	■ 0	■ 0	■ 0
Boron	ppm	▲ 39	■ 0	■ 0	■ 0

Depot: VOLVO0093
Unique No: 10606011
Signed: Don Baldrige
Report Date: 17 Aug 2023

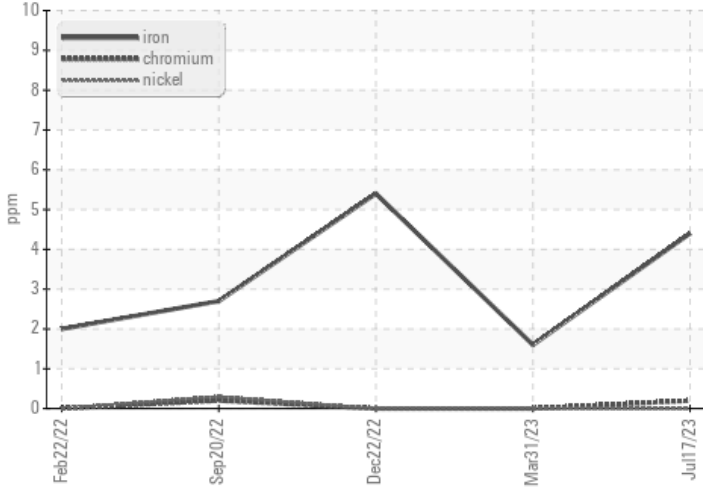


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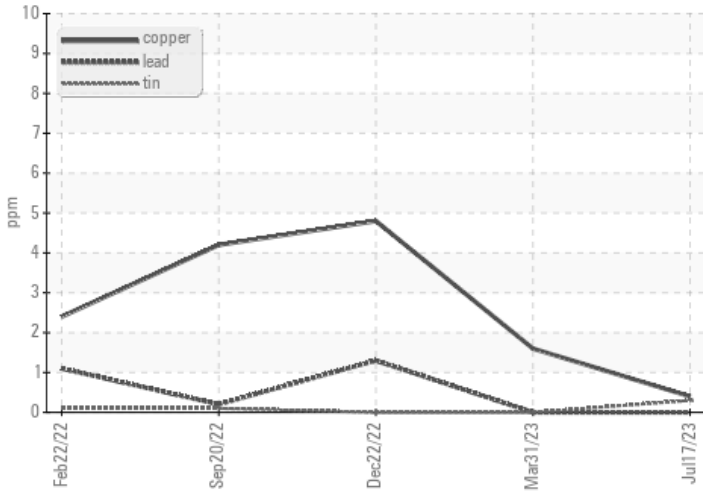


GRAPHS

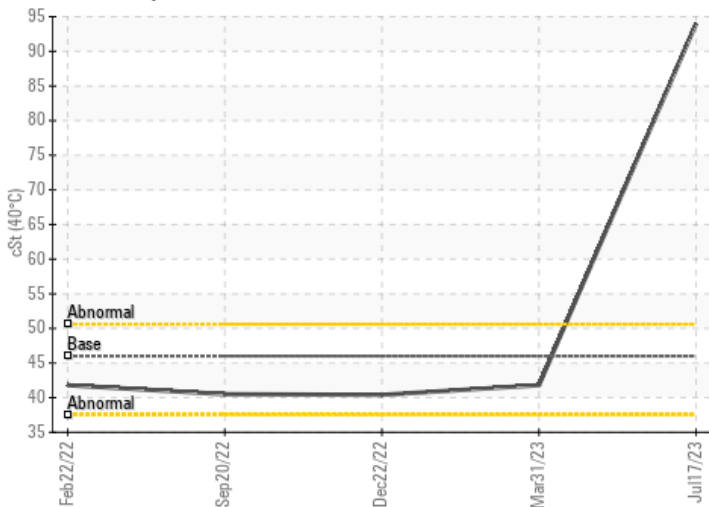
Ferrous Alloys



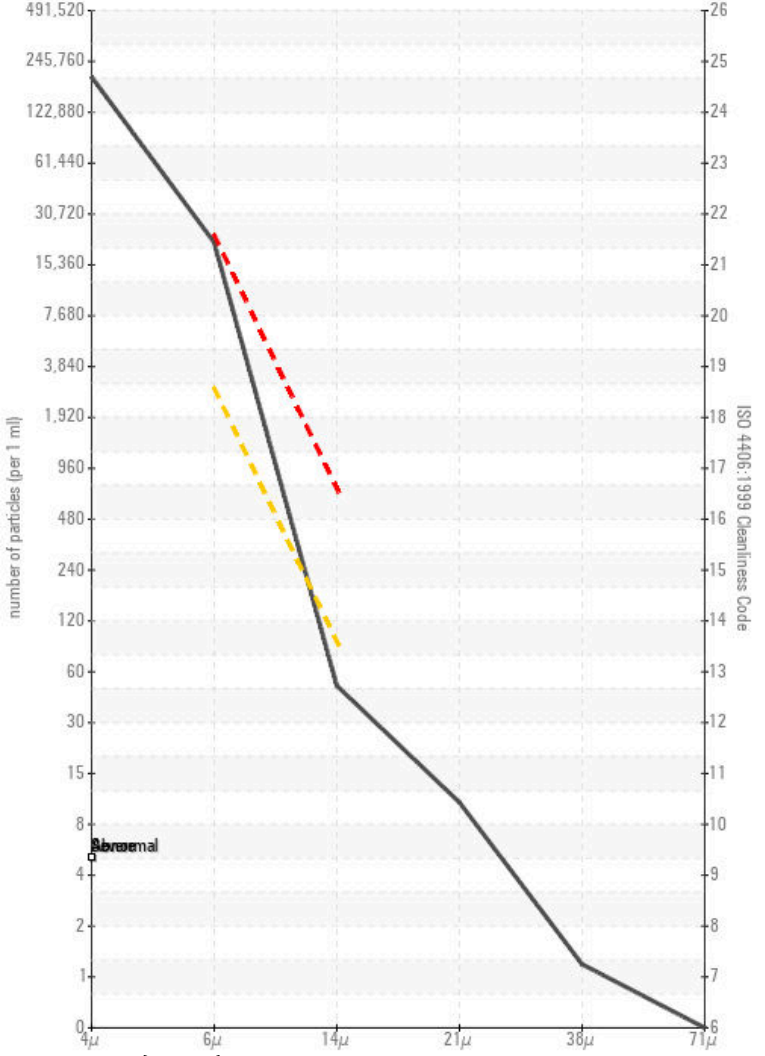
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

