



CONSTRUCTION EQUIPMENT

HANSON VOLVO L220H 3137 - HYDRAULIC SYSTEM



Sample No: VCP421579
Oil Type: {unknown}
Job No: HANSON



SAMPLE INFORMATION

Sample Number	VCP421579	ASC0006358	VCP423901	VCP414030
Sample Date	14 Mar 2024	18 Jan 2024	24 Aug 2023	12 Jul 2023
Machine Hours	9077	8714	8073	7687
Oil Hours	0	2000	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	ATTENTION	NORMAL

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 3561 JONES SAUSAGE ROAD
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 Contact: TRENT BROADWELL
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 T: (919)661-8817
 F: (919)661-9038



OIL CONDITION

Visc @ 40°C	cSt	41.1	42.8	38.7	38.9
Acid Number (AN)	mg KOH/g	0.39	0.56	0.826	0.26



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		12839	10948	8584	2355
Particles >6µm		4779	626	2189	793
Particles >14µm		428	30	143	57
ISO 4406:1999 (c)		21/19/16	21/16/12	20/18/14	18/17/13
Silicon	ppm	2	2	6	5
Sodium	ppm	0	0	4	3
Potassium	ppm	0	2	3	0

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 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	0	4	10	9
Copper	ppm	<1	2	4	4
Lead	ppm	<1	2	2	<1
Tin	ppm	0	1	<1	0
Aluminum	ppm	1	2	3	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	1	<1	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	864	846	1183	1165
Magnesium	ppm	0	3	15	6
Zinc	ppm	636	683	702	676
Phosphorus	ppm	507	495	547	568
Barium	ppm	0	<1	0	0
Boron	ppm	0	0	0	0

Depot: VOLV00157
Unique No: 10936435
Signed: Wes Davis
Report Date: 20 Mar 2024

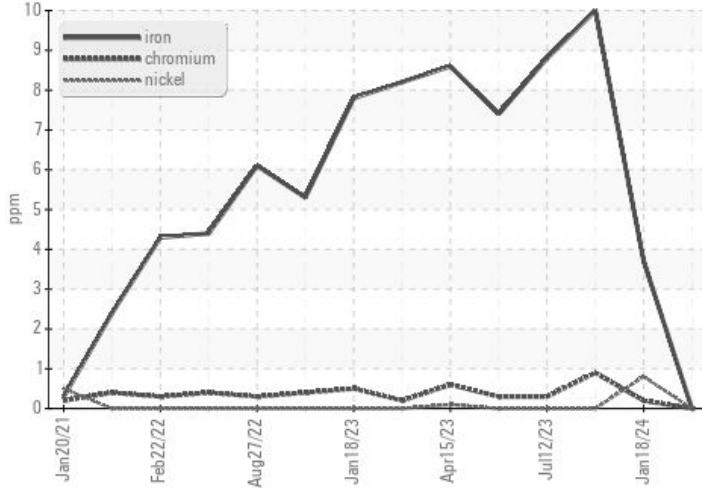


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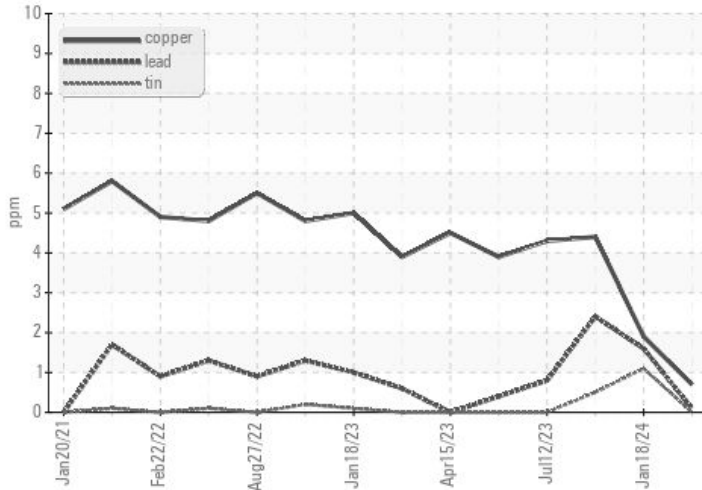


VOLVO GRAPHS

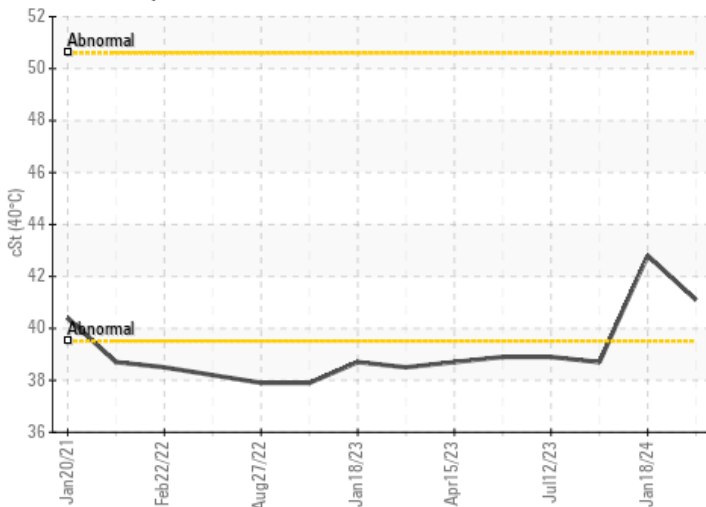
Ferrous Alloys



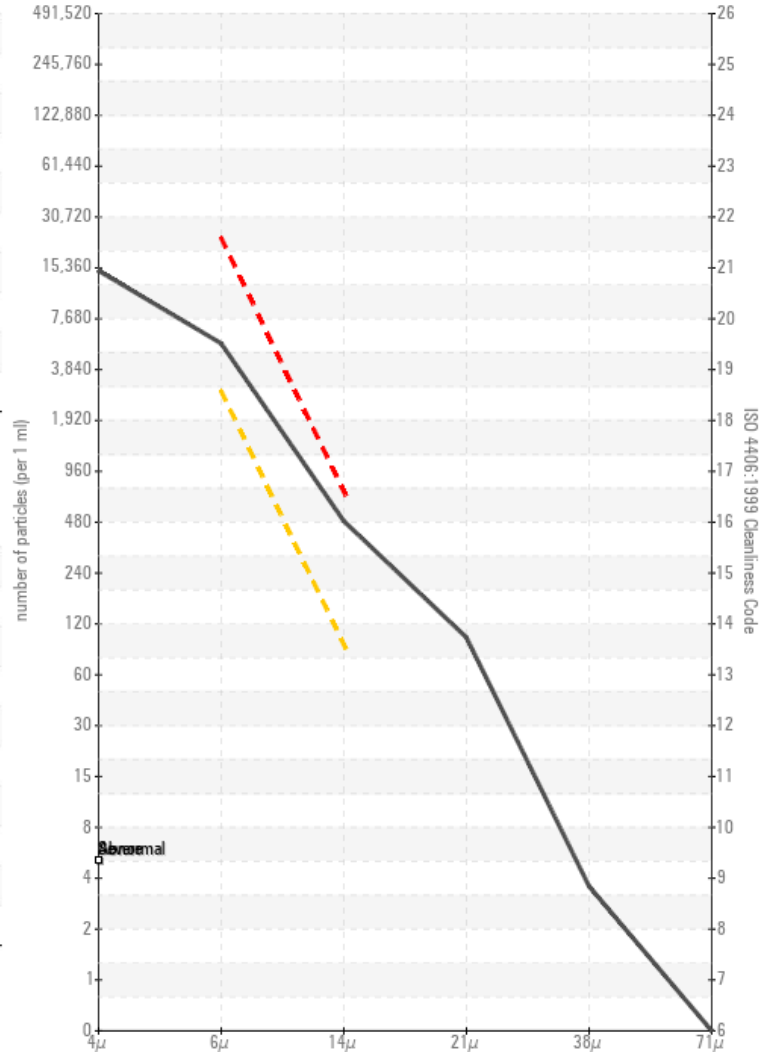
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

