



CONSTRUCTION EQUIPMENT

10050 VOLVO L220H 2855 - HYDRAULIC SYSTEM



Sample No: VCP409452
Oil Type: CHEVRON HYDRAULIC OIL AW ISO 46
Job No: 10050



SAMPLE INFORMATION

Sample Number	VCP409452	VCP355098	VCP338157	VCP270861
Sample Date	15 Dec 2023	20 Jul 2022	15 Dec 2021	05 May 2020
Machine Hours	15891	11991	10295	5993
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

WHEELABRATOR
 1801 ANNAPOLIS RD
 BALTIMORE, MD
 US 21230
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 40°C	cSt	37.4	38.1	38.0	40.3
Acid Number (AN)	mg KOH/g	0.50	0.46	0.337	0.390

T: (215)428-7902
 F:

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		171718	162652	353015	▲ 135090
Particles >6µm		1335	▲ 8092	▲ 4884	▲ 6004
Particles >14µm		10	■ 29	▲ 220	■ 27
ISO 4406:1999 (c)		25/18/10	25/20/12	26/19/15	24/20/12
Silicon	ppm	3	■ 3	■ 2	■ 1
Sodium	ppm	4	■ 4	■ 3	■ 1
Potassium	ppm	2	■ 0	■ 0	■ <1

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	13	■ 11	■ 8	■ 3
Copper	ppm	2	■ 3	■ 2	■ 2
Lead	ppm	0	■ <1	■ <1	■ <1
Tin	ppm	0	■ 1	■ 0	■ <1
Aluminum	ppm	2	■ 2	■ <1	■ <1
Chromium	ppm	2	■ 3	■ 2	■ 2
Molybdenum	ppm	0	■ <1	■ <1	■ <1
Nickel	ppm	0	■ 1	■ 0	■ 0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	94	■ 93	■ 92	■ 110
Magnesium	ppm	2	■ 2	■ 1	■ 2
Zinc	ppm	435	■ 398	■ 368	■ 420
Phosphorus	ppm	338	■ 339	■ 334	■ 337
Barium	ppm	0	■ 0	■ 0	■ 0
Boron	ppm	1	■ 2	■ <1	■ 2

Depot: WHEBAL
Unique No: 10805328
Signed: Wes Davis
Report Date: 27 Dec 2023

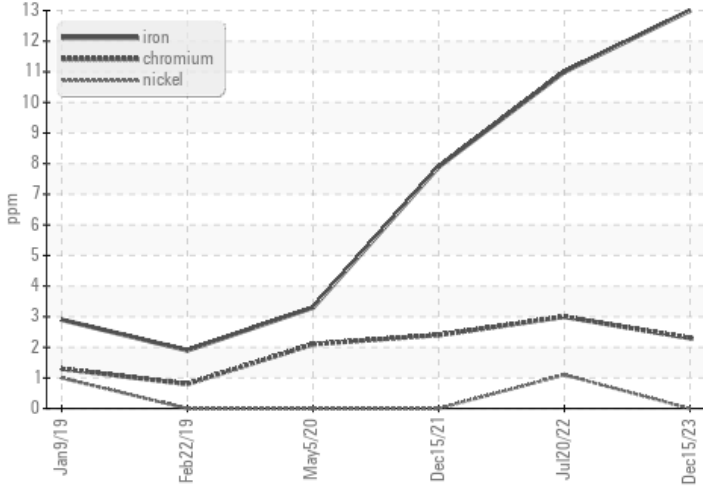


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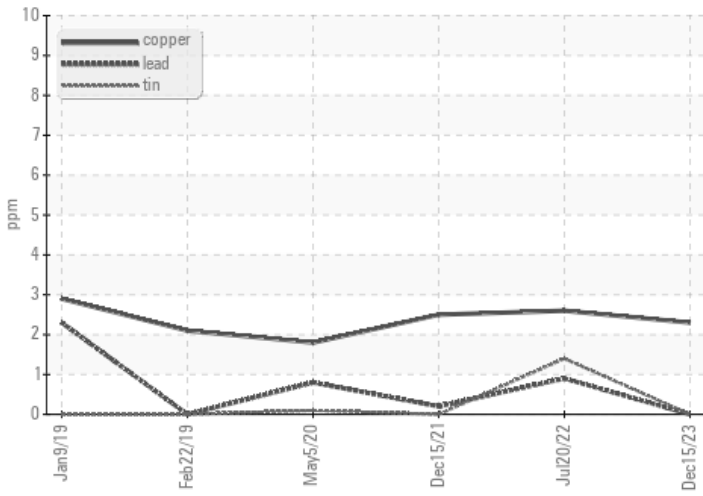


GRAPHS

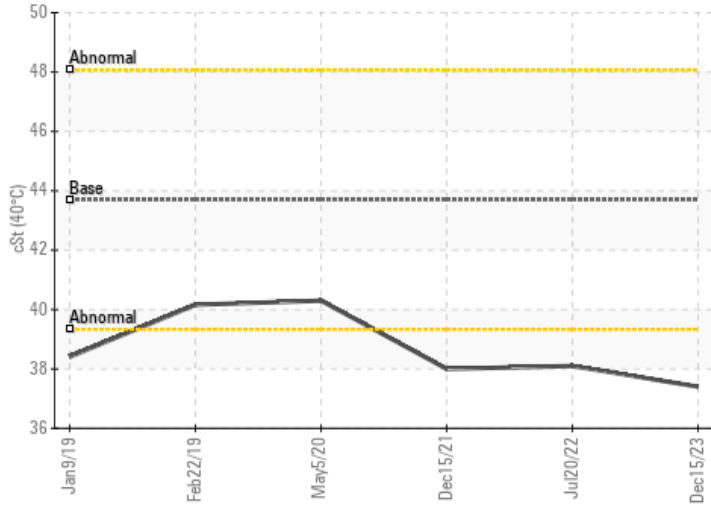
Ferrous Alloys



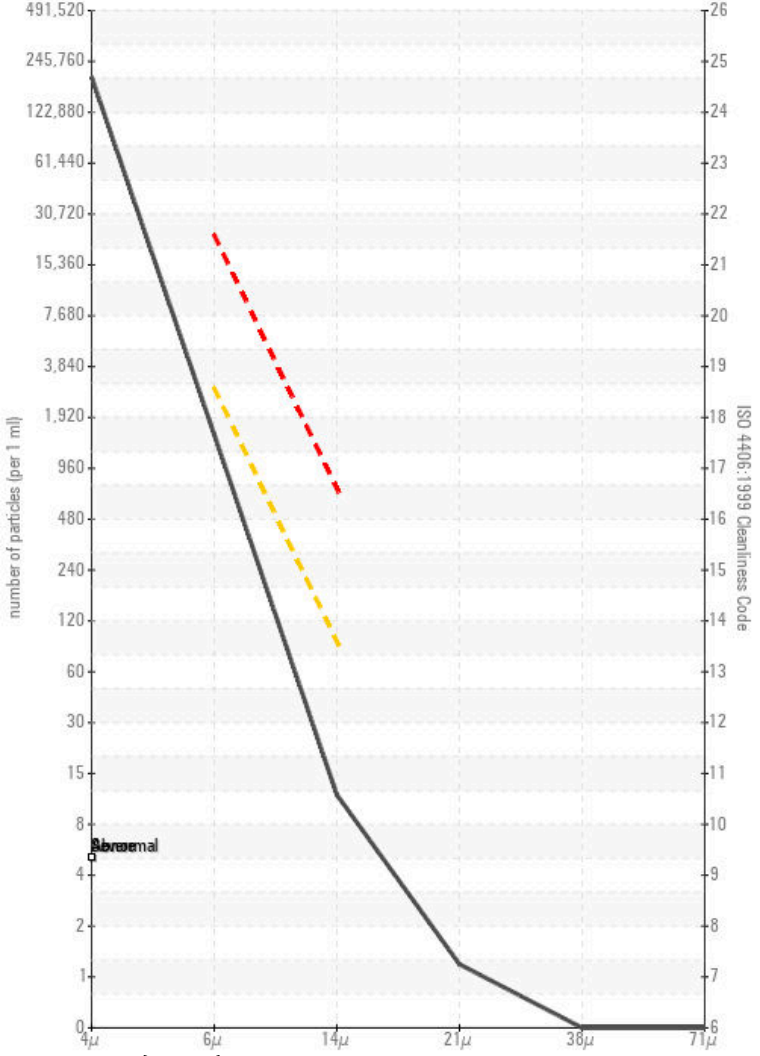
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

