



CONSTRUCTION EQUIPMENT

9859 VOLVO L90H 623827 - HYDRAULIC SYSTEM



Sample No: VCP398603
Oil Type: CHEVRON HYDRAULIC OIL AW ISO 46
Job No: 9859



SAMPLE INFORMATION

Sample Number	VCP398603	VCP339283	VCP335650	VCP310380
Sample Date	08 Dec 2023	14 Feb 2022	22 Sep 2021	17 May 2021
Machine Hours	8096	5990	5645	5140
Oil Hours	0	2000	1500	1000
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

IAA - INSURANCE AUTO AUCTIONS - ELKTON
 183 ZEITLER RD
 ELKTON, MD
 US 21921
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	41.4	41.6	42.0	42.2
Acid Number (AN)	mg KOH/g	0.22	0.19	0.256	0.267

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		957	7373	3598	7191
Particles >6µm		197	1088	680	1345
Particles >14µm		27	75	44	49
ISO 4406:1999 (c)		17/15/12	20/17/13	19/17/13	20/18/13
Silicon	ppm	4	4	3	2
Sodium	ppm	3	2	2	2
Potassium	ppm	0	0	<1	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	4	4	3	2
Copper	ppm	6	5	4	4
Lead	ppm	1	1	2	2
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	2	<1	<1
Chromium	ppm	2	1	<1	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	148	164	155	173
Magnesium	ppm	0	2	2	3
Zinc	ppm	440	448	446	478
Phosphorus	ppm	362	387	345	377
Barium	ppm	0	0	0	0
Boron	ppm	2	4	7	6

Depot: IAAELK
Unique No: 10783233
Signed: Wes Davis
Report Date: 14 Dec 2023

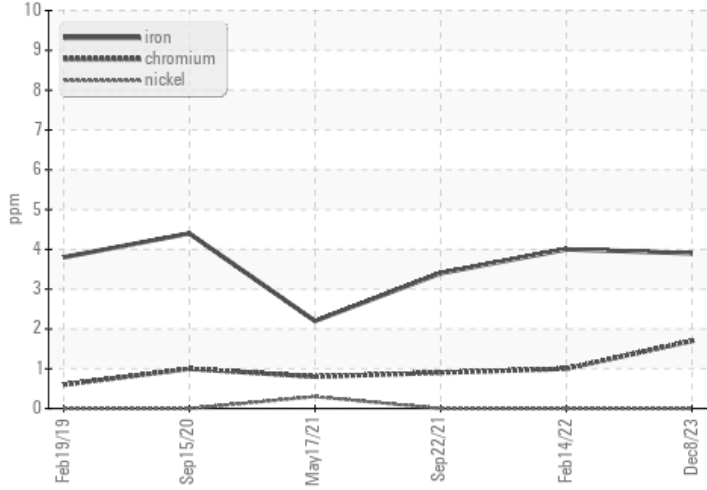


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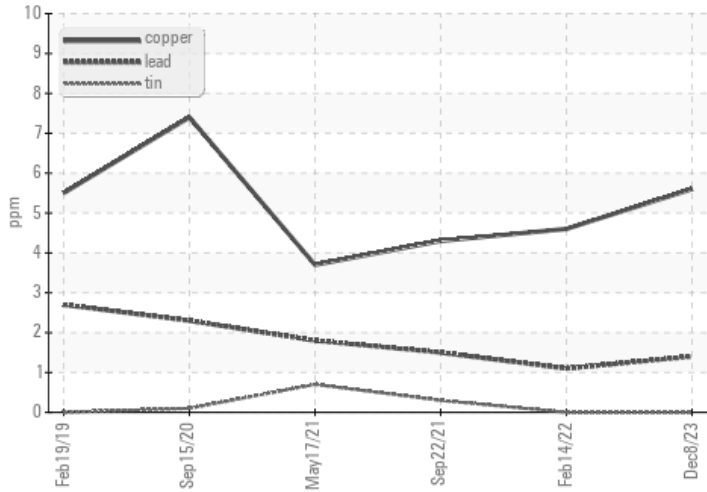


VOLVO GRAPHS

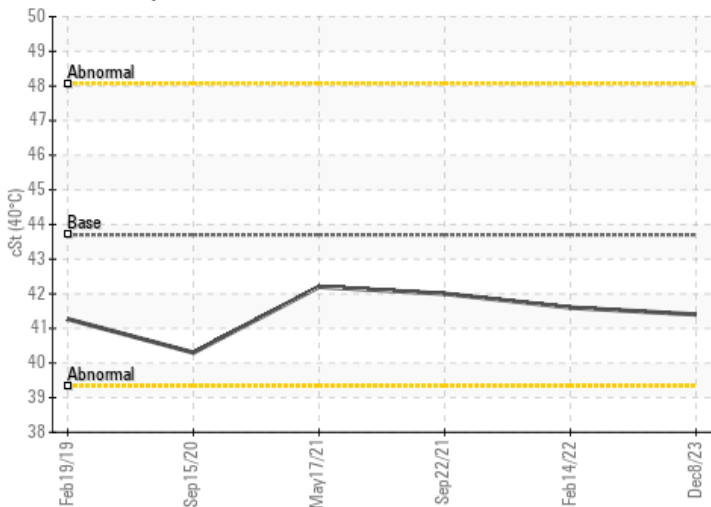
Ferrous Alloys



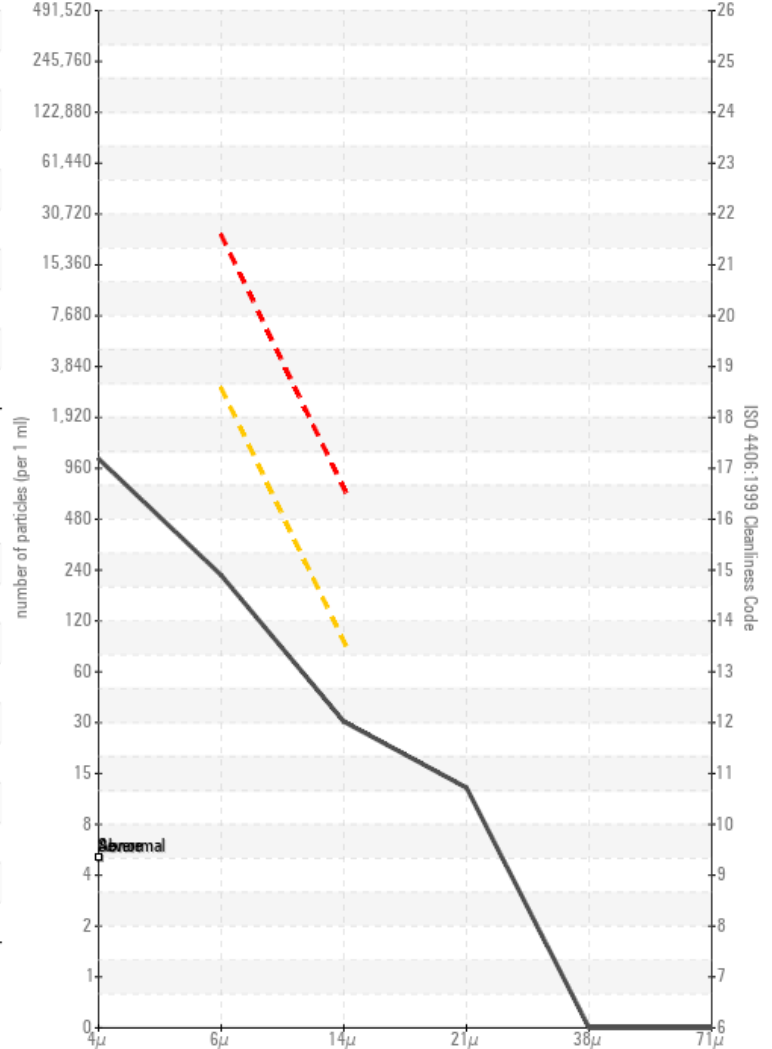
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

