



CONSTRUCTION EQUIPMENT

9594 CURTIS BAY VOLVO L90G 3163 - HYDRAULIC SYSTEM



Sample No: VCP417952
Oil Type: CHEVRON HYDRAULIC OIL AW ISO 46
Job No: 9594 CURTIS BAY



SAMPLE INFORMATION

Sample Number	VCP417952	VCP360403	VCP237732	VCP190180
Sample Date	15 Sep 2023	20 May 2022	14 Mar 2019	24 May 2018
Machine Hours	16208	14701	12114	10637
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

IAA - INSURANCE AUTO AUCTIONS - BALTIMORE
 3131 HAWKINS POINT RD
 BALTIMORE, MD
 US 21226
 Contact: Service Manager

OIL CONDITION

Visc @ 40°C	cSt	43.7	43.6	42.00	43.36
Acid Number (AN)	mg KOH/g	0.43	0.40	0.423	0.396

T:
F:

CONTAMINATION

Particles >4µm		1483	1248	1529	2898
Particles >6µm		501	171	445	978
Particles >14µm		31	11	56	▲ 129
ISO 4406:1999 (c)		18/16/12	17/15/11	18/16/13	19/17/14
Silicon	ppm	2	5	11	9
Sodium	ppm	3	0	1	<1
Potassium	ppm	0	<1	<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	2	4	5	5
Copper	ppm	2	2	3	3
Lead	ppm	0	<1	<1	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	0	1	1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	111	106	72	69
Magnesium	ppm	13	5	3	<1
Zinc	ppm	513	418	368	376
Phosphorus	ppm	385	337	355	339
Barium	ppm	0	2	0	0
Boron	ppm	7	2	<1	2

Depot: IAABAL
Unique No: 10657633
Signed: Wes Davis
Report Date: 21 Sep 2023

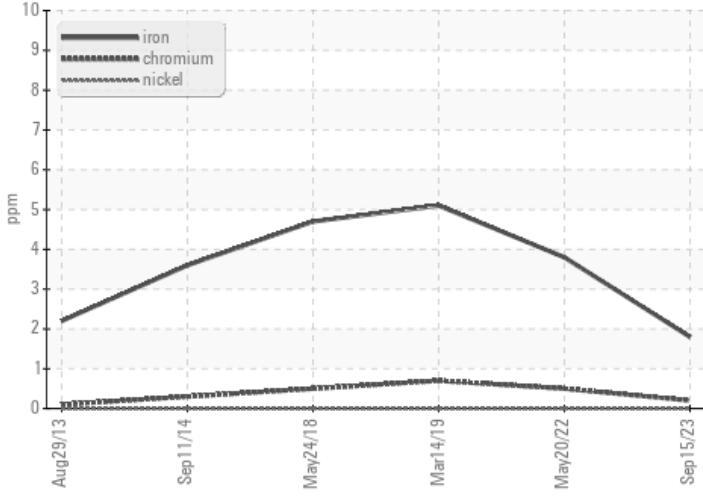


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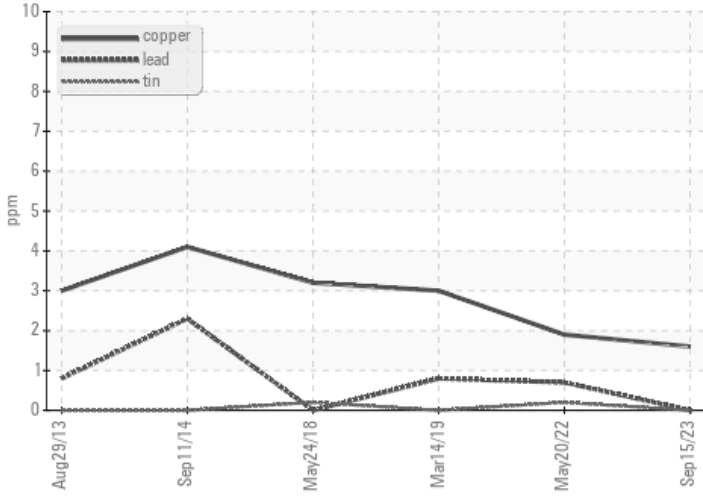


GRAPHS

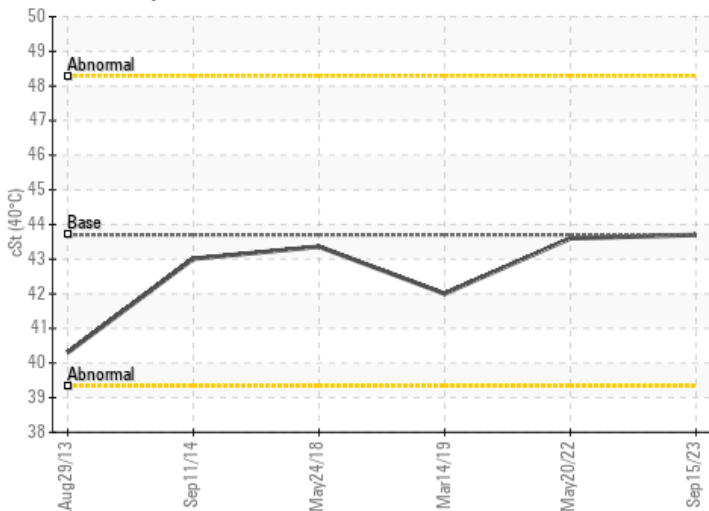
Ferrous Alloys



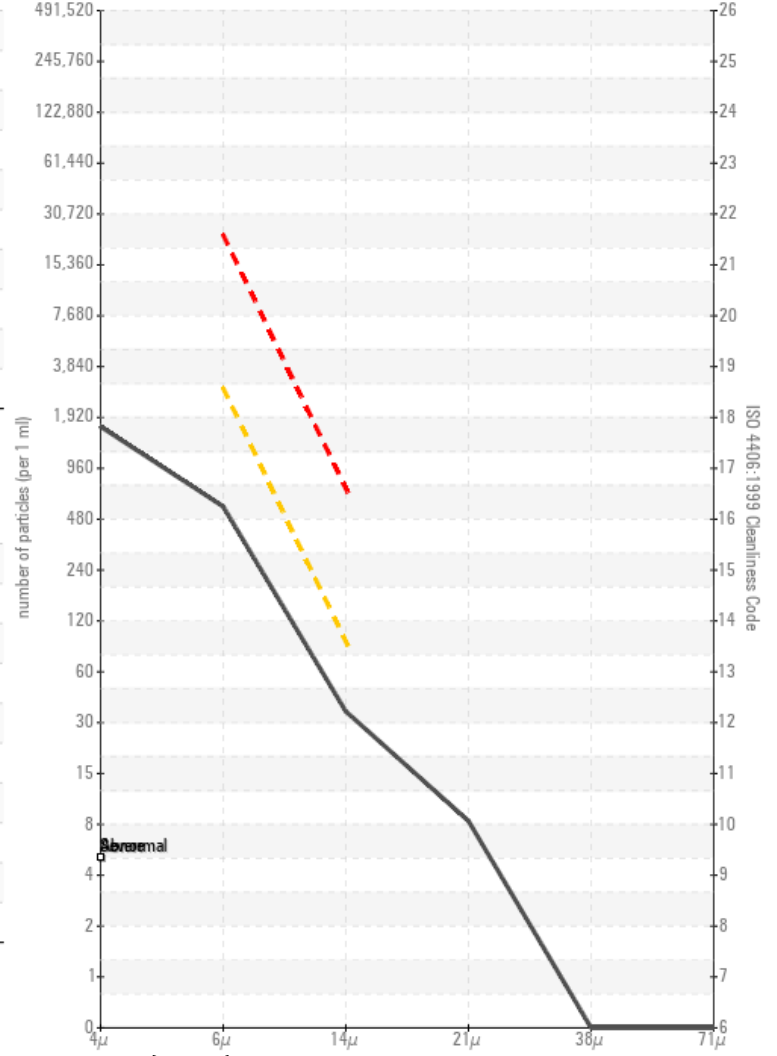
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

