



CONSTRUCTION EQUIPMENT

491185 VOLVO L180H 5419 - HYDRAULIC SYSTEM



Sample No: VCP453953
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 491185



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



SAMPLE INFORMATION

Sample Number	VCP453953	VCP438163	VCP413240	VCP418114
Sample Date	11 Mar 2024	18 Jan 2024	18 Jul 2023	02 Jun 2023
Machine Hours	0	11783	9778	9285
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	SEVERE	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	46.8	46.6	46.7	46.9
Acid Number (AN)	mg KOH/g	0.30	0.27	0.27	0.22



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		638	51548	13331	1479
Particles >6µm		54	12678	2591	289
Particles >14µm		6	1280	72	15
ISO 4406:1999 (c)		16/13/10	23/21/17	21/19/13	18/15/11
Silicon	ppm	4	3	2	2
Sodium	ppm	4	4	4	0
Potassium	ppm	<1	0	0	1



WEAR METALS

Iron	ppm	6	6	4	5
Copper	ppm	3	2	2	2
Lead	ppm	1	0	0	1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	2	<1	<1	0
Chromium	ppm	1	1	<1	<1
Molybdenum	ppm	<1	1	1	2
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	206	204	205	209
Magnesium	ppm	8	2	6	7
Zinc	ppm	471	417	462	478
Phosphorus	ppm	366	352	378	353
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

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.

Depot: VOLVO0093
Unique No: 10941169
Signed: Wes Davis
Report Date: 26 Mar 2024

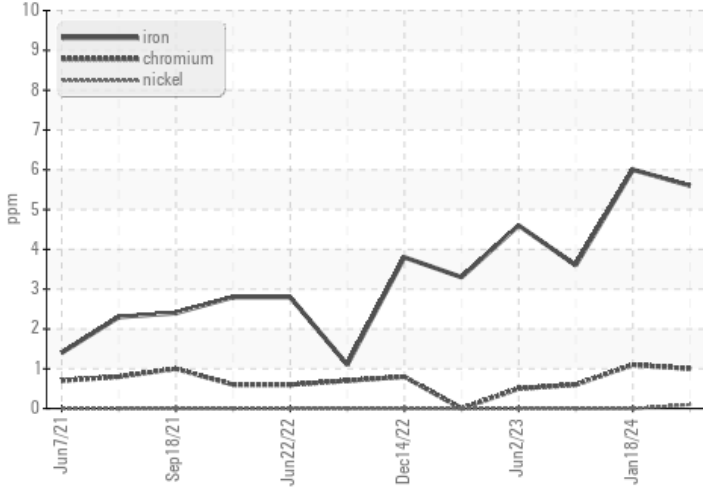


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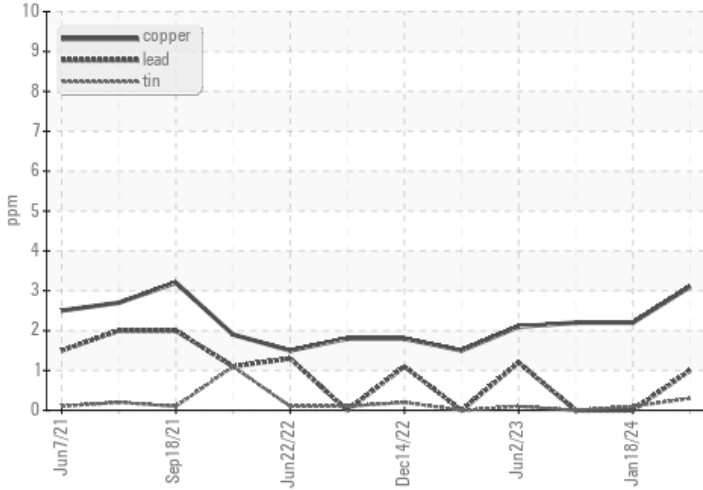


VOLVO GRAPHS

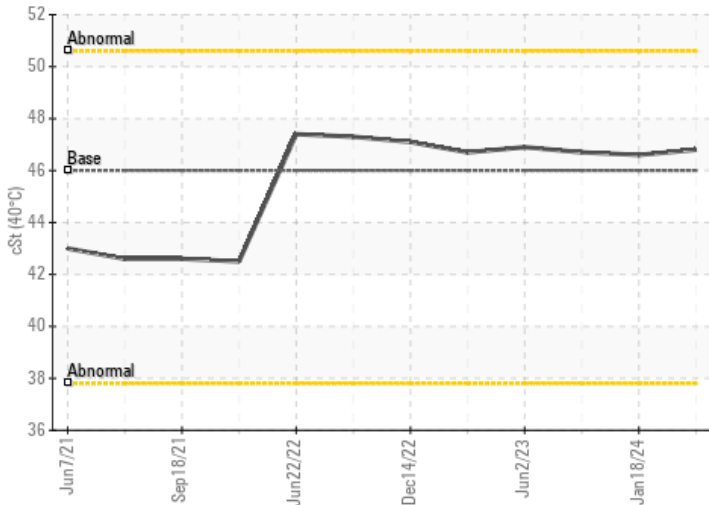
Ferrous Alloys



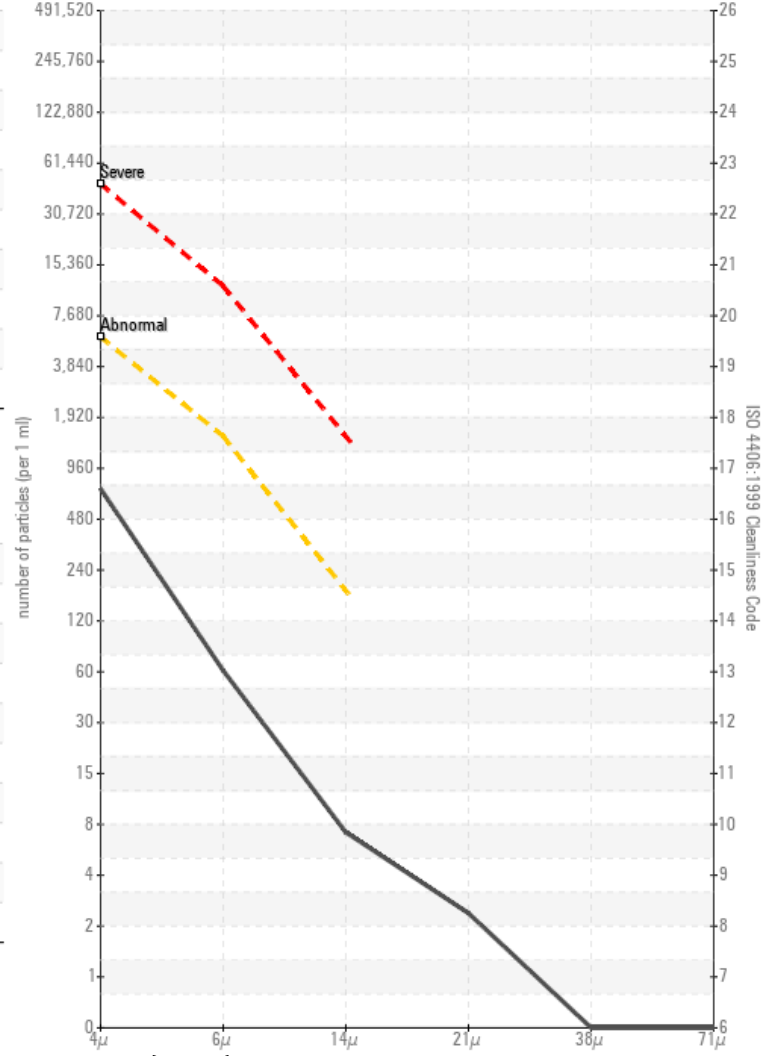
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

