



CONSTRUCTION EQUIPMENT

400616 WM VOLVO L90H 624438 - HYDRAULIC SYSTEM



Sample No: VCP432308
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 400616 WM



SAMPLE INFORMATION

Sample Number	VCP432308	VCP432733	VCP417660	VCP421044
Sample Date	27 Oct 2023	01 Sep 2023	10 Jul 2023	16 May 2023
Machine Hours	12363	11842	11301	0
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
 Contact: Robert LaPlante
 robert.laplante@altg.com
 T: (407)508-9736
 F: (407)659-8720



OIL CONDITION

Visc @ 40°C	cSt	43.4	42.3	42.0	42.2
Acid Number (AN)	mg KOH/g	0.39	0.43	0.45	0.38



CONTAMINATION

Particles >4µm		732	399	1185	1008
Particles >6µm		207	87	301	235
Particles >14µm		24	8	26	27
ISO 4406:1999 (c)		17/15/12	16/14/10	17/15/12	17/15/12
Silicon	ppm	2	6	6	5
Sodium	ppm	0	11	7	10
Potassium	ppm	2	<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	3	7	8	4
Copper	ppm	2	6	6	4
Lead	ppm	<1	<1	1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	1	1	<1
Chromium	ppm	<1	1	2	<1
Molybdenum	ppm	2	4	4	4
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	212	154	86	77
Magnesium	ppm	10	8	15	5
Zinc	ppm	484	471	443	461
Phosphorus	ppm	364	368	327	355
Barium	ppm	0	0	0	0
Boron	ppm	4	<1	0	0

Depot: VOLVO0096
Unique No: 10724985
Signed: Wes Davis
Report Date: 03 Nov 2023

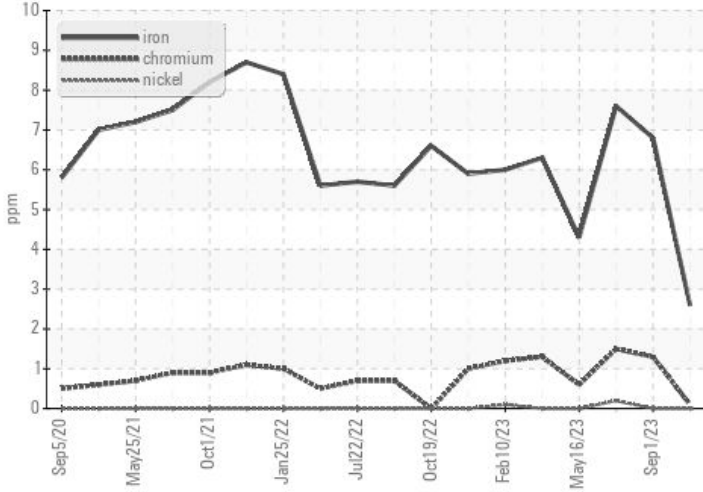


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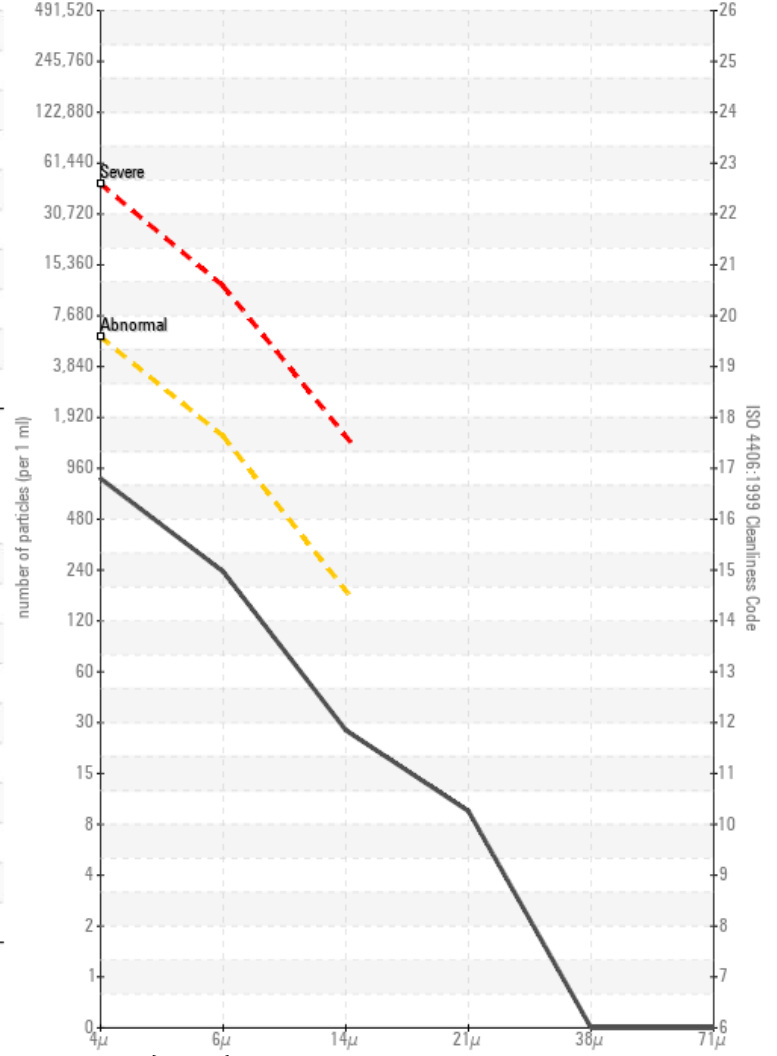


VOLVO GRAPHS

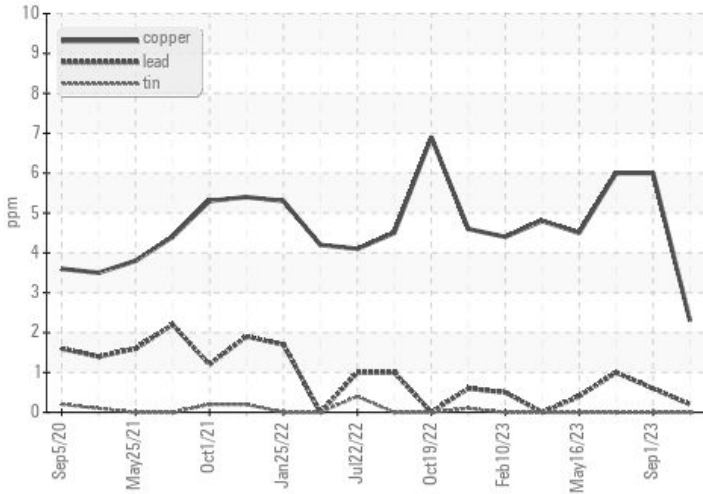
Ferrous Alloys



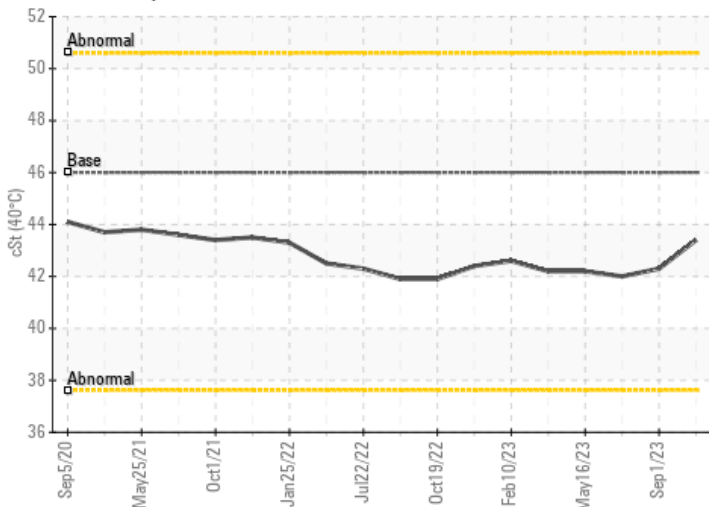
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

