



CONSTRUCTION EQUIPMENT

SPM594244 VOLVO ECR145E 315030 - HYDRAULIC SYSTEM



Sample No: VCP412993
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM594244



SAMPLE INFORMATION

Sample Number	VCP412993	VCP425494	VCP405596	VCP370920
Sample Date	12 Aug 2023	20 Jun 2023	23 Mar 2023	17 Oct 2022
Machine Hours	2484	2332	2010	1519
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

JON M HALL COMPANY
 1920 BOOTHE CIRCLE SUITE 110
 LONGWOOD, FL
 US 32750
 Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 40°C	cSt	42.4	42.3	43.2	42.6
Acid Number (AN)	mg KOH/g	0.49	0.47	0.49	0.59

T: (407)215-0410
 F:



CONTAMINATION

Particles >4µm	1582	29922	400	4351	
Particles >6µm	495	7467	128	1063	
Particles >14µm	60	494	18	77	
ISO 4406:1999 (c)	18/16/13	22/20/16	16/14/11	19/17/13	
Silicon	ppm	5	5	9	6
Sodium	ppm	<1	1	<1	0
Potassium	ppm	0	0	<1	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.



WEAR METALS

Iron	ppm	2	2	2	2
Copper	ppm	20	22	35	30
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	85	56	63	67
Magnesium	ppm	<1	0	0	0
Zinc	ppm	444	432	487	487
Phosphorus	ppm	361	368	380	368
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: JONLON
Unique No: 10617352
Signed: Wes Davis
Report Date: 24 Aug 2023

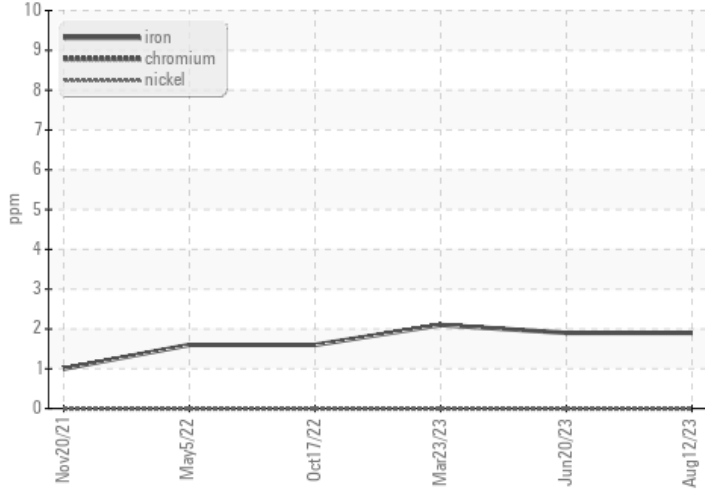


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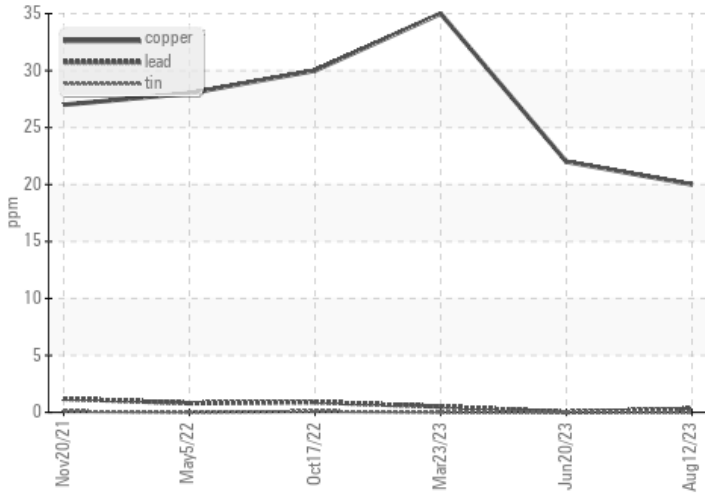


GRAPHS

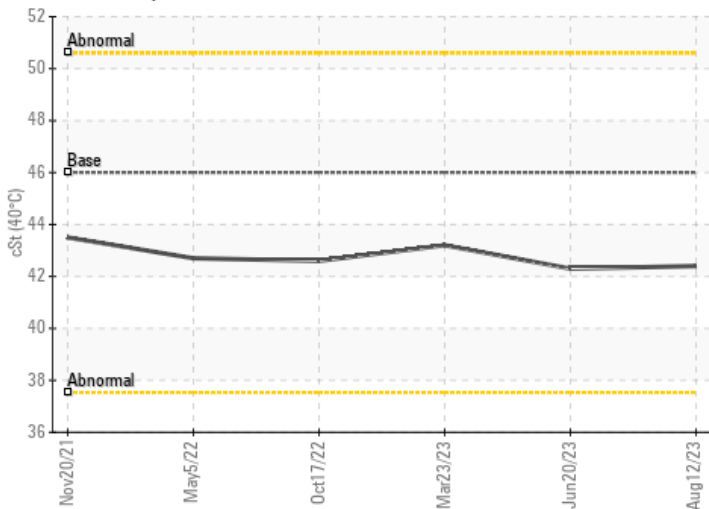
Ferrous Alloys



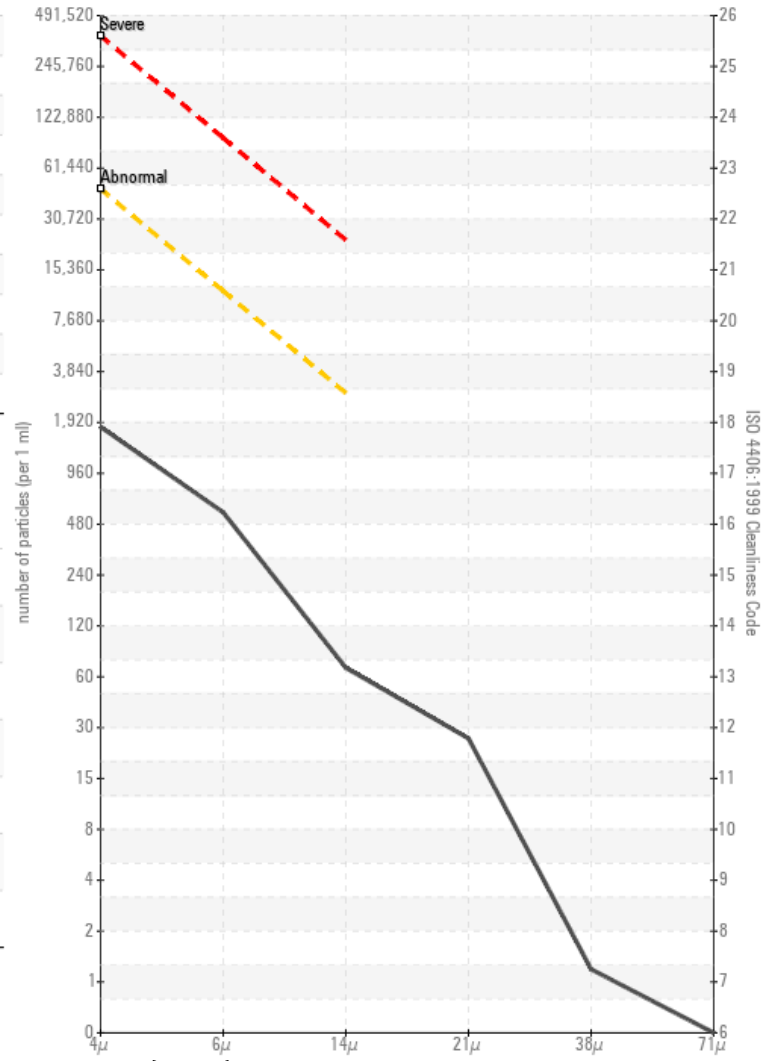
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

