



CONSTRUCTION EQUIPMENT

9463 VOLVO ECR145E 315030 - HYDRAULIC SYSTEM



Sample No: VCP431316
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 9463



SAMPLE INFORMATION

Sample Number	VCP431316	VCP412993	VCP425494	VCP405596
Sample Date	08 Jan 2024	12 Aug 2023	20 Jun 2023	23 Mar 2023
Machine Hours	2987	2484	2332	2010
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
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	42.2	42.4	42.3	43.2
Acid Number (AN)	mg KOH/g	0.56	0.49	0.47	0.49

T: (407)215-0410
 F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		5243	1582	29922	400
Particles >6µm		1010	495	7467	128
Particles >14µm		57	60	494	18
ISO 4406:1999 (c)		20/17/13	18/16/13	22/20/16	16/14/11
Silicon	ppm	7	5	5	9
Sodium	ppm	2	<1	1	<1
Potassium	ppm	0	0	0	<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	2	2	2
Copper	ppm	22	20	22	35
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	0	<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	0	<1	0	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	59	85	56	63
Magnesium	ppm	0	<1	0	0
Zinc	ppm	437	444	432	487
Phosphorus	ppm	353	361	368	380
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: JONLON
Unique No: 10832359
Signed: Jonathan Hester
Report Date: 17 Jan 2024

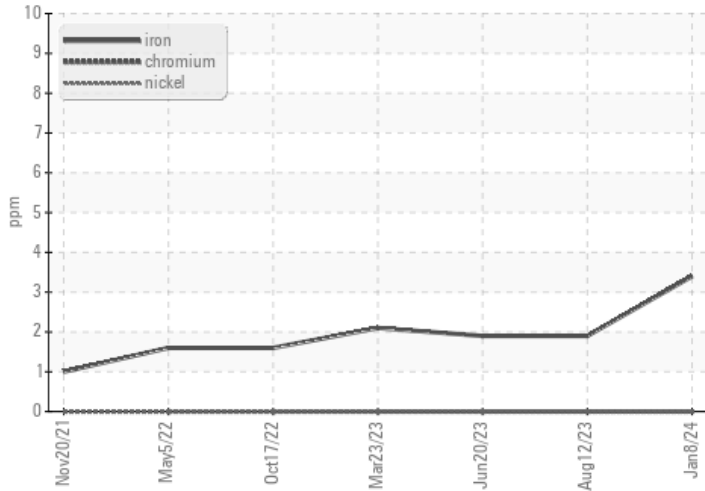


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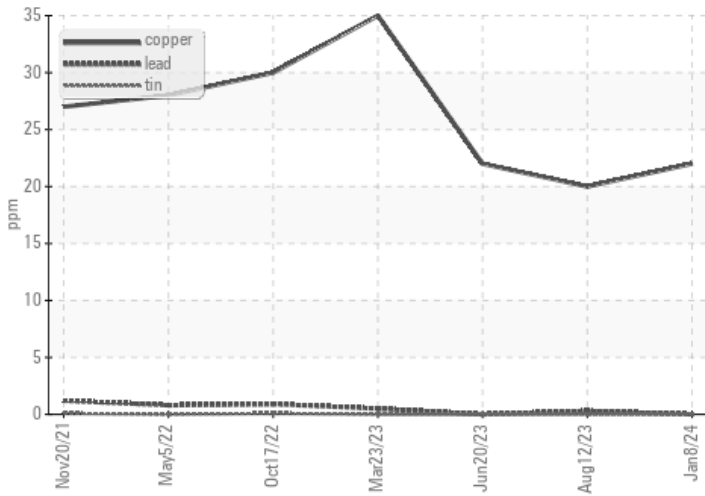


GRAPHS

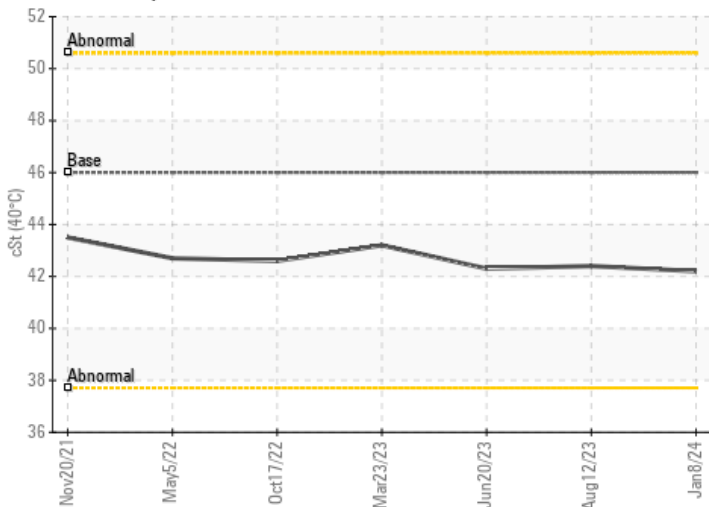
Ferrous Alloys



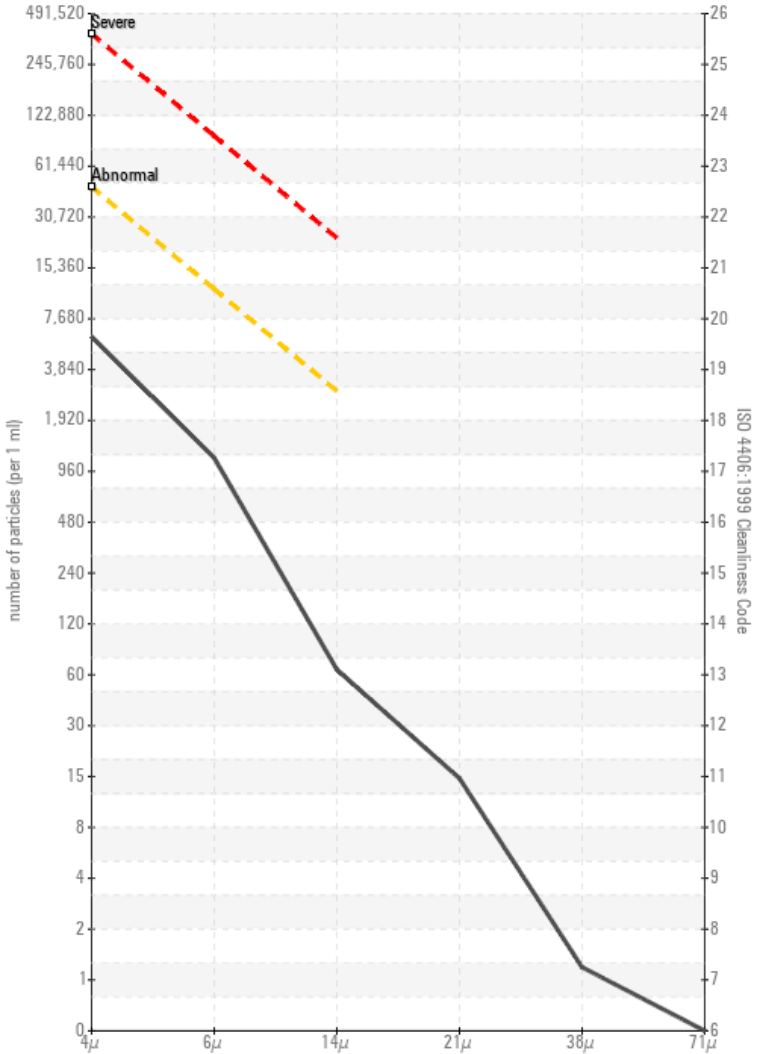
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

