



CONSTRUCTION EQUIPMENT

UPAP-ORLANDO 660878 19248 VOLVO L90E 67648 - HYDRAULIC SYSTEM



Sample No: VCP437638
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 660878



SAMPLE INFORMATION

Sample Number	VCP437638	DJJ0005266	VCP225953	DJJ024418
Sample Date	19 Jan 2024	04 May 2023	13 Aug 2019	30 May 2019
Machine Hours	14504	14411	19397	19099
Oil Hours	0	0	0	1000
Oil Changed	Not Changd	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	45.6	45.0	44.1	42.6
Acid Number (AN)	mg KOH/g	0.29	0.35	0.700	0.231

CONTAMINATION

Water	%	NEG	NEG	NEG	0.066
Particles >4µm		10820	12688	49144	41391
Particles >6µm		747	1997	10686	9276
Particles >14µm		29	17	279	518
ISO 4406:1999 (c)		21/17/12	21/18/11	23/21/15	23/20/16
Silicon	ppm	2	2	3	2
Sodium	ppm	1	4	<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	0	2	1	4
Copper	ppm	<1	0	<1	2
Lead	ppm	<1	1	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	2	5	<1	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	70	80	707	57
Magnesium	ppm	5	9	7	1
Zinc	ppm	423	453	584	269
Phosphorus	ppm	333	357	466	217
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	20	2

Depot: UPUORL
Unique No: 10846179
Signed: Wes Davis
Report Date: 25 Jan 2024

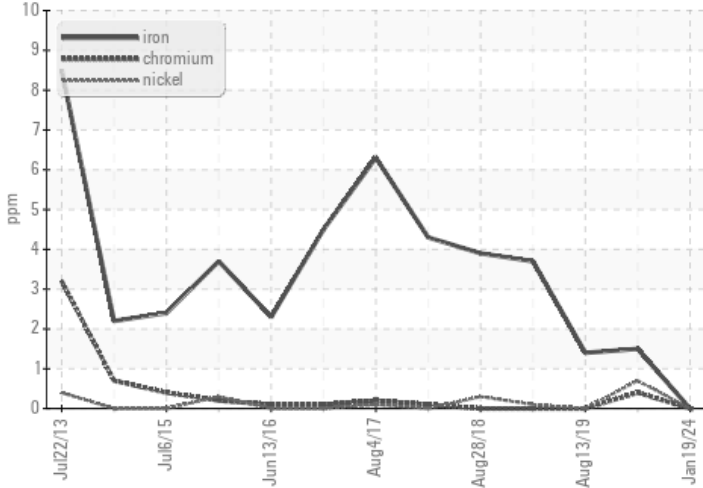


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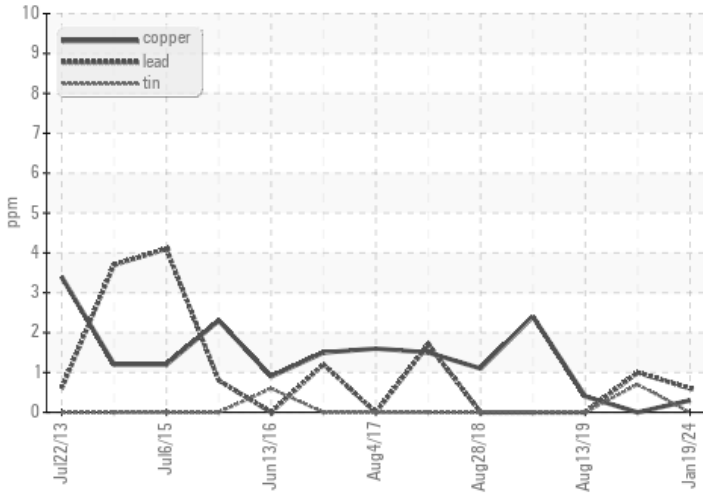


GRAPHS

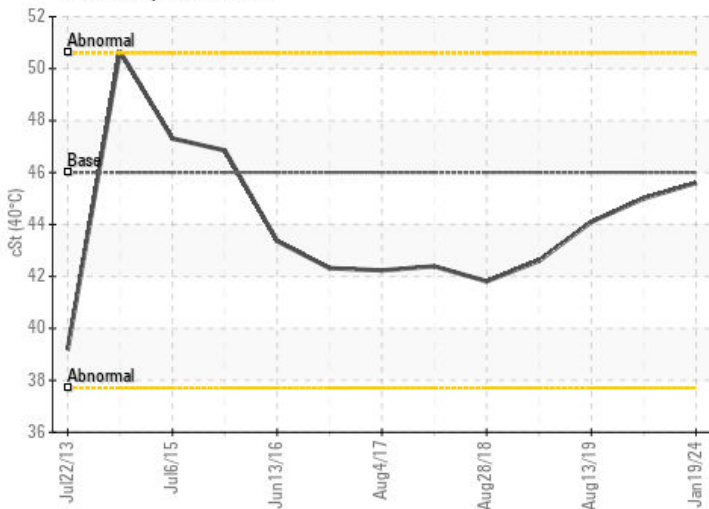
Ferrous Alloys



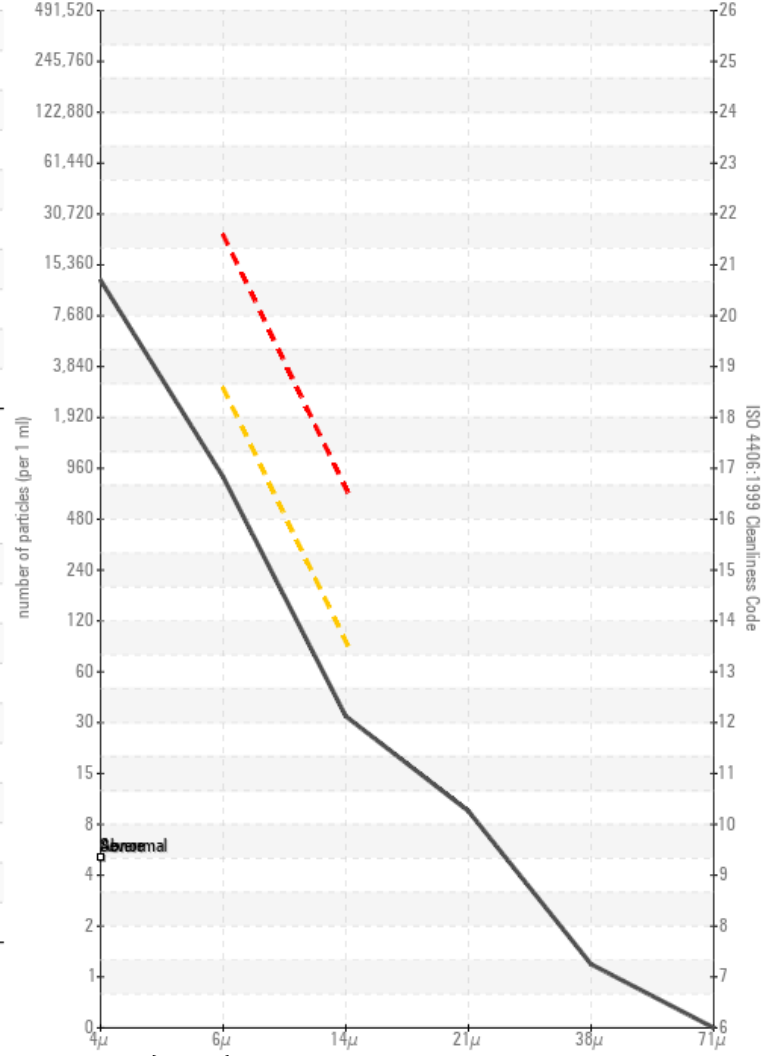
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

