



CONSTRUCTION EQUIPMENT

SPM632787 VOLVO EC480EL 314792 - HYDRAULIC SYSTEM



Sample No: VCP429126
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM632787



SAMPLE INFORMATION

Sample Number	VCP429126	VCP422855	VCP404074	VCP369244
Sample Date	02 Nov 2023	07 Jul 2023	21 Apr 2023	26 Jan 2023
Machine Hours	3011	2503	1993	1441
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

SIMS METAL MANAGEMENT

2500 S. PAULINA
 CHICAGO, IL
 US 60608
 Contact: RYAN WISE
 ryan.wise@simsmm.com
 T:
 F:

OIL CONDITION

Visc @ 40°C	cSt	44.2	42.0	42.7	42.3
Acid Number (AN)	mg KOH/g	0.39	0.47	0.45	0.58

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7859	3430	68925	6727
Particles >6µm		1024	455	19322	1014
Particles >14µm		62	10	1870	25
ISO 4406:1999 (c)		20/17/13	19/16/10	23/21/18	20/17/12
Silicon	ppm	0	3	3	4
Sodium	ppm	6	2	0	0
Potassium	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.

WEAR METALS

Iron	ppm	7	6	3	4
Copper	ppm	2	18	18	18
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	0	<1	<1	0
Chromium	ppm	1	2	<1	<1
Molybdenum	ppm	<1	0	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	70	96	72	89
Magnesium	ppm	5	5	4	5
Zinc	ppm	382	476	446	460
Phosphorus	ppm	319	399	394	372
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SIMCHIL
Unique No: 10766945
Signed: Wes Davis
Report Date: 04 Dec 2023

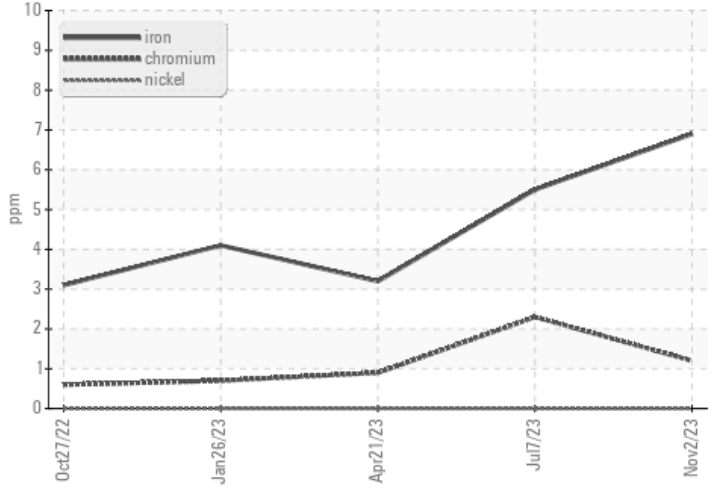


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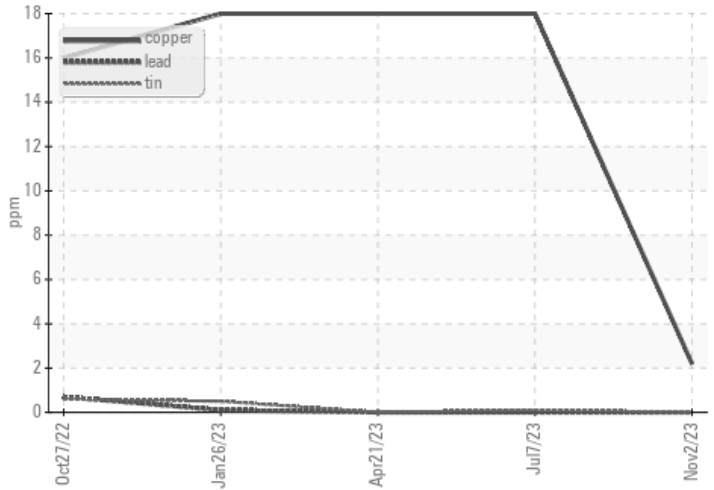


GRAPHS

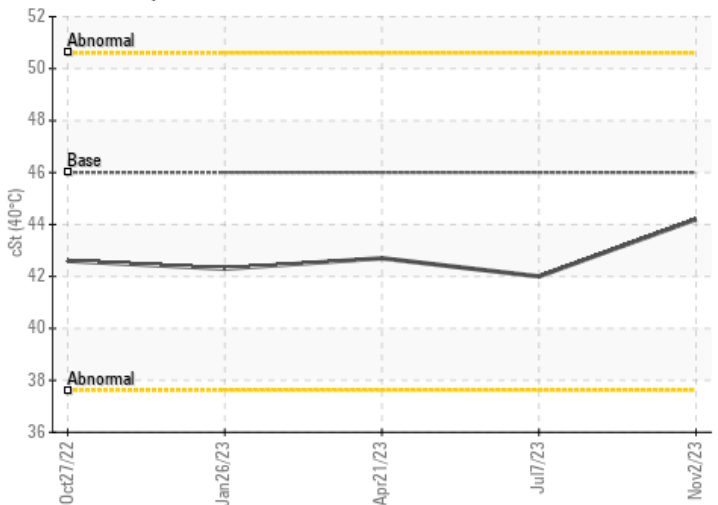
Ferrous Alloys



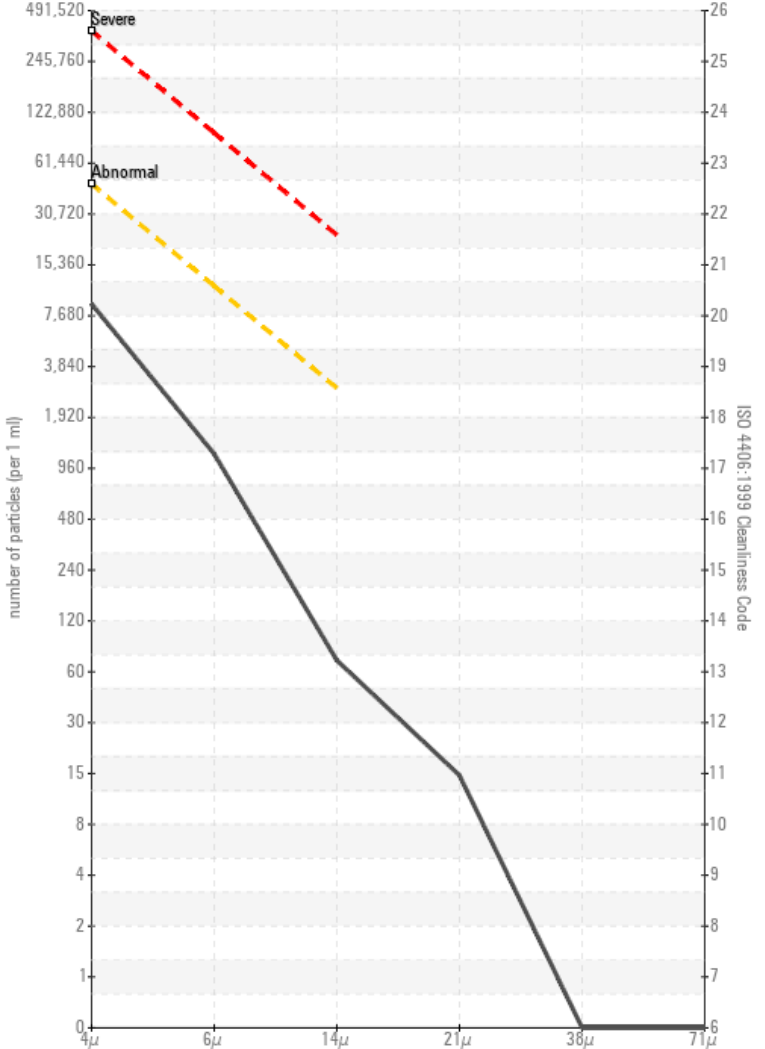
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

