



CONSTRUCTION EQUIPMENT

SPM594509 WM HODGKIN VOLVO EC250EL 310691 - HYDRAULIC SYSTEM



Sample No: VCP415428
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM594509 WM HODGKIN



SAMPLE INFORMATION

Sample Number	VCP415428	VCP422603	VCP423216	VCP404949
Sample Date	18 Aug 2023	16 Jun 2023	01 Jun 2023	18 May 2023
Machine Hours	14626	15556	12246	12093
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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5000 INDUSTRIAL HWY
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OIL CONDITION

Visc @ 40°C	cSt	41.3	41.0	40.1	40.3
Acid Number (AN)	mg KOH/g	0.76	0.36	0.42	0.37



CONTAMINATION

Particles >4µm		5789	3566	2836	1196
Particles >6µm		1130	908	738	404
Particles >14µm		71	71	62	43
ISO 4406:1999 (c)		20/17/13	19/17/13	19/17/13	17/16/13
Silicon	ppm	<1	1	<1	1
Sodium	ppm	0	<1	0	1
Potassium	ppm	<1	<1	1	2

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	1	1	1	2
Copper	ppm	4	4	4	4
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	0	0	0	0
Chromium	ppm	<1	1	1	1
Molybdenum	ppm	<1	<1	0	1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	64	64	75	75
Magnesium	ppm	8	7	11	11
Zinc	ppm	455	466	503	473
Phosphorus	ppm	349	346	378	380
Barium	ppm	2	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO8885
Unique No: 10632698
Signed: Wes Davis
Report Date: 06 Sep 2023

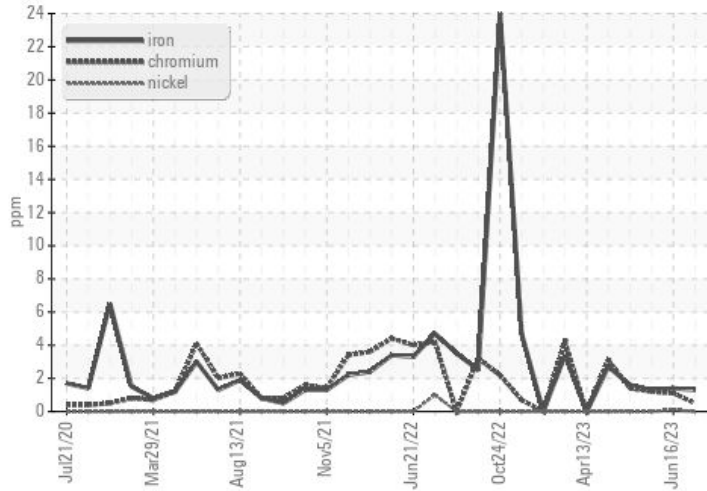


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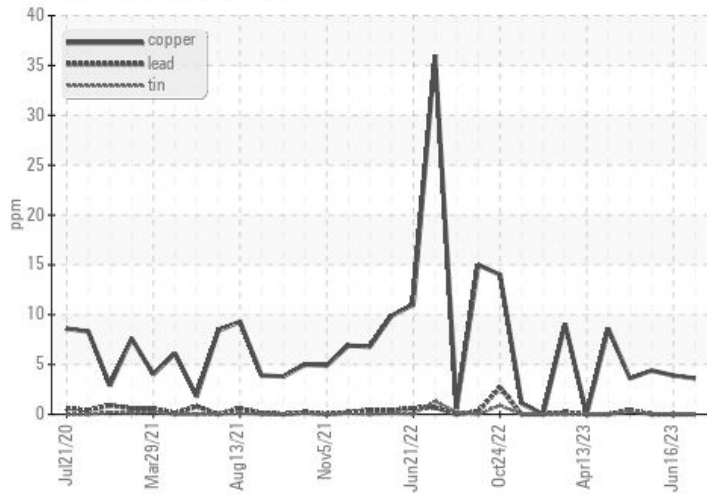


VOLVO GRAPHS

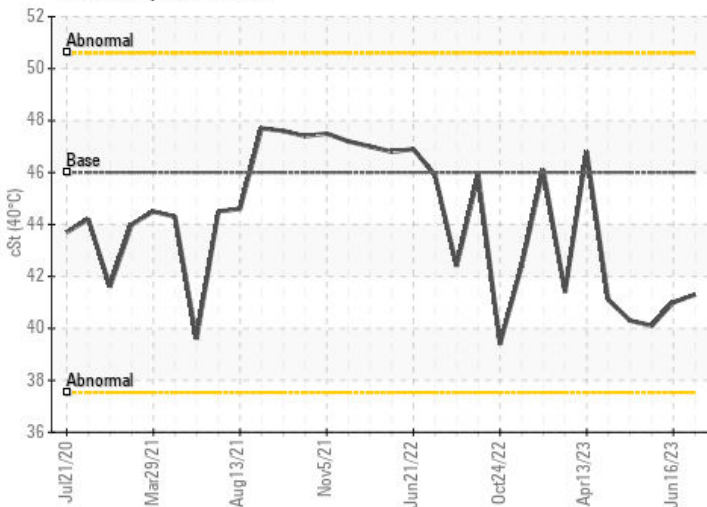
Ferrous Alloys



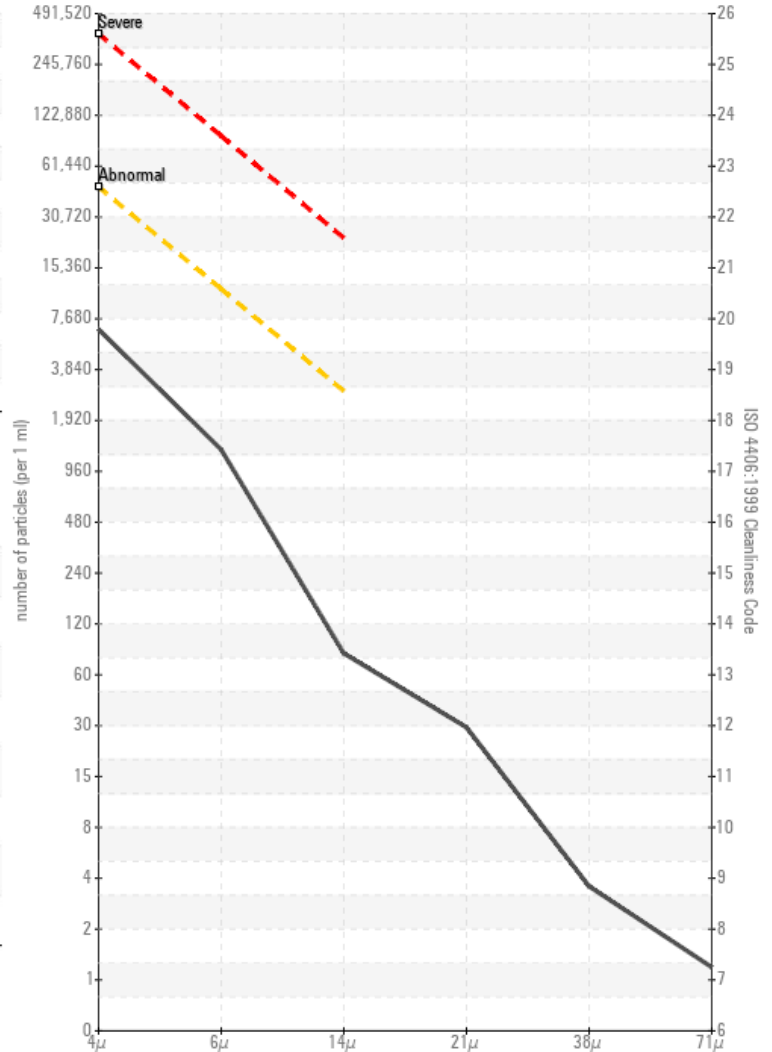
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

