



CONSTRUCTION EQUIPMENT

SPM567191 WM HODGKIN VOLVO EC250EL 310691 - HYDRAULIC SYSTEM



Sample No: VCP422603
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM567191 WM HODGKIN



SAMPLE INFORMATION

Sample Number	VCP422603	VCP423216	VCP404949	VCP404954
Sample Date	16 Jun 2023	01 Jun 2023	18 May 2023	05 May 2023
Machine Hours	15556	12246	12093	11968
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:



OIL CONDITION

Visc @ 40°C	cSt	41.0	40.1	40.3	41.1
Acid Number (AN)	mg KOH/g	0.36	0.42	0.37	0.64



CONTAMINATION

Particles >4µm		3566	2836	1196	1962
Particles >6µm		908	738	404	470
Particles >14µm		71	62	43	37
ISO 4406:1999 (c)		19/17/13	19/17/13	17/16/13	18/16/12
Silicon	ppm	1	<1	1	1
Sodium	ppm	<1	0	1	0
Potassium	ppm	<1	1	2	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	1	1	2	3
Copper	ppm	4	4	4	9
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	0	0	0	0
Chromium	ppm	1	1	1	3
Molybdenum	ppm	<1	0	1	1
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	64	75	75	87
Magnesium	ppm	7	11	11	21
Zinc	ppm	466	503	473	567
Phosphorus	ppm	346	378	380	446
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO8885
Unique No: 10548653
Signed: Doug Bogart
Report Date: 10 Jul 2023

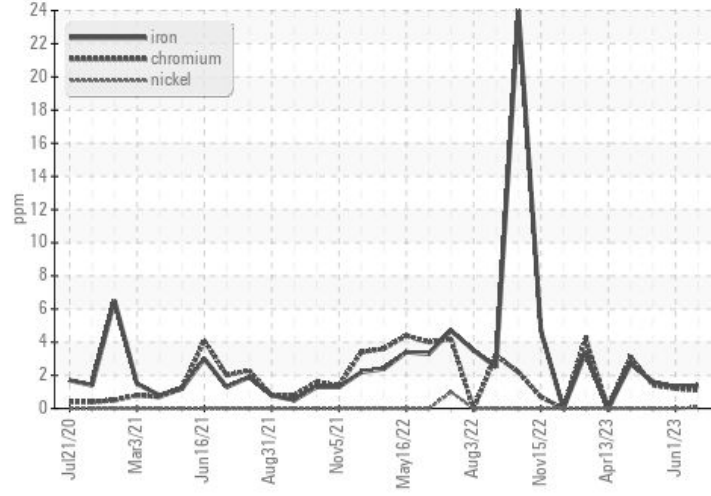


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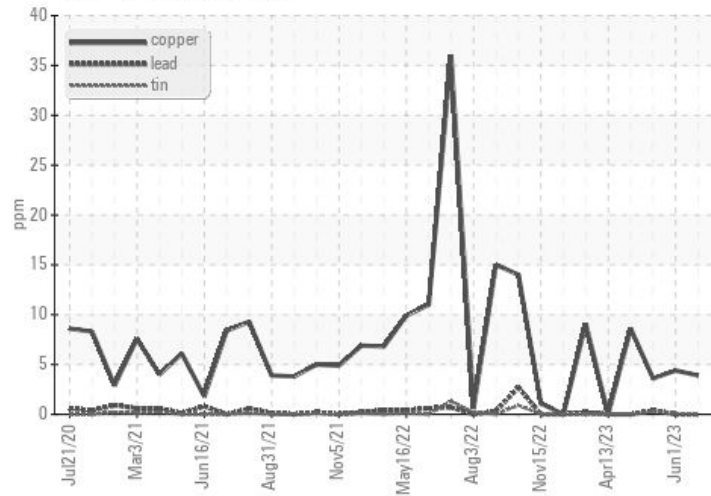


GRAPHS

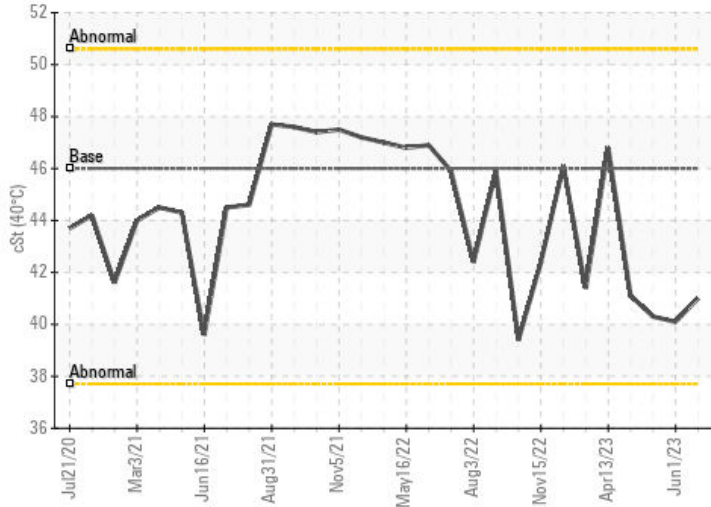
Ferrous Alloys



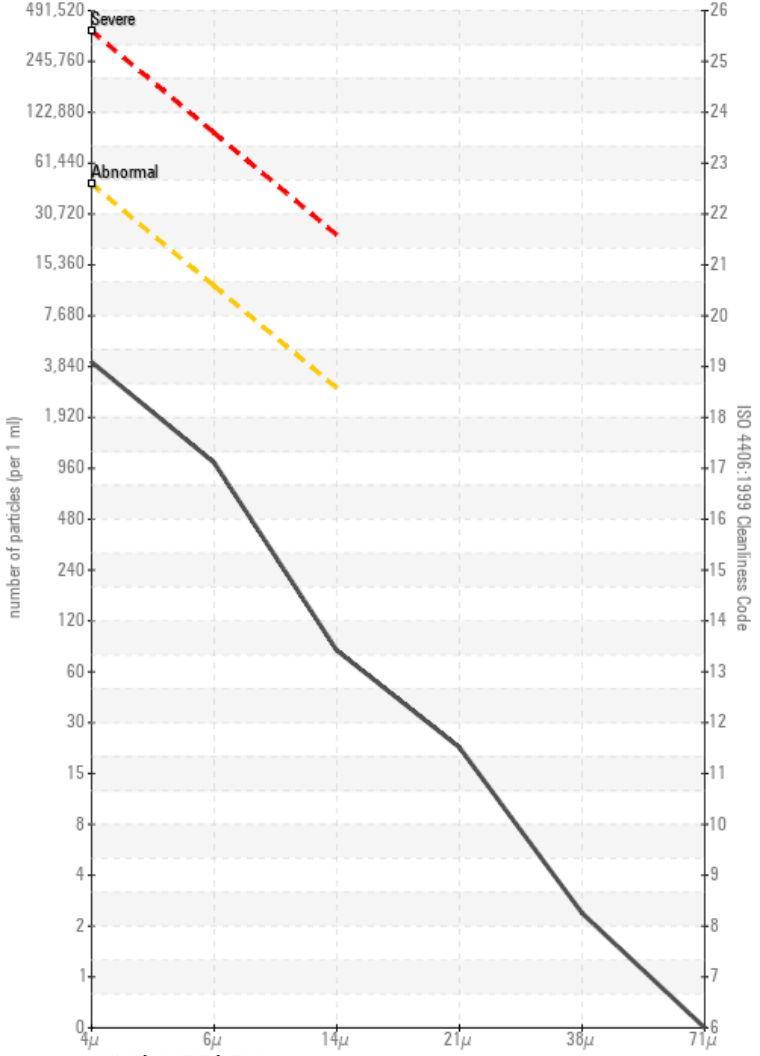
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

