



CONSTRUCTION EQUIPMENT

11335 VOLVO EC220DL 210516 - HYDRAULIC SYSTEM



Sample No: VCP430935
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 11335



SAMPLE INFORMATION

Sample Number	VCP430935	VCBM001641	VCP361457	VCP284793
Sample Date	20 Oct 2023	07 Mar 2023	14 Jul 2022	26 Jun 2020
Machine Hours	18596	17930	17175	14160
Oil Hours	18596	1000	1000	2000
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

WASTE MANAGEMENT

5245 BLEIGH AVE
 PHILADELPHIA, PA
 US 19136
 Contact: JERRY SAUTER
 gsauterj@wm.com
 T: (610)636-4994
 F:

OIL CONDITION

Visc @ 40°C	cSt	40.6	40.6	40.6	42.4
Acid Number (AN)	mg KOH/g	0.36	0.35	0.41	0.311

CONTAMINATION

Particles >4µm	7608	952	18013	7388	
Particles >6µm	1239	188	2916	1405	
Particles >14µm	56	19	96	198	
ISO 4406:1999 (c)	20/17/13	17/15/11	21/19/14	20/18/15	
Silicon	ppm	4	4	3	4
Sodium	ppm	0	<1	2	<1
Potassium	ppm	2	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	7	6	6	4
Copper	ppm	10	8	9	6
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	3	2	2	2
Molybdenum	ppm	<1	<1	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	123	117	132	99
Magnesium	ppm	2	1	1	3
Zinc	ppm	463	435	442	473
Phosphorus	ppm	386	359	362	354
Barium	ppm	3	0	0	<1
Boron	ppm	0	<1	10	2

Depot: WASPHI
Unique No: 10711770
Signed: Wes Davis
Report Date: 26 Oct 2023

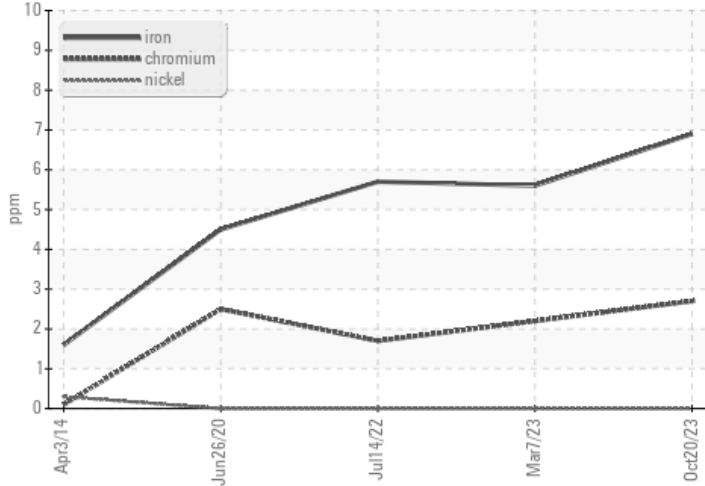


CONSTRUCTION EQUIPMENT

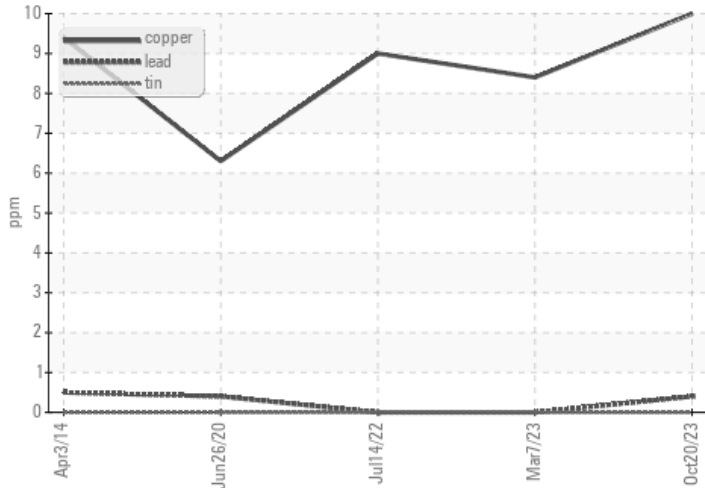


GRAPHS

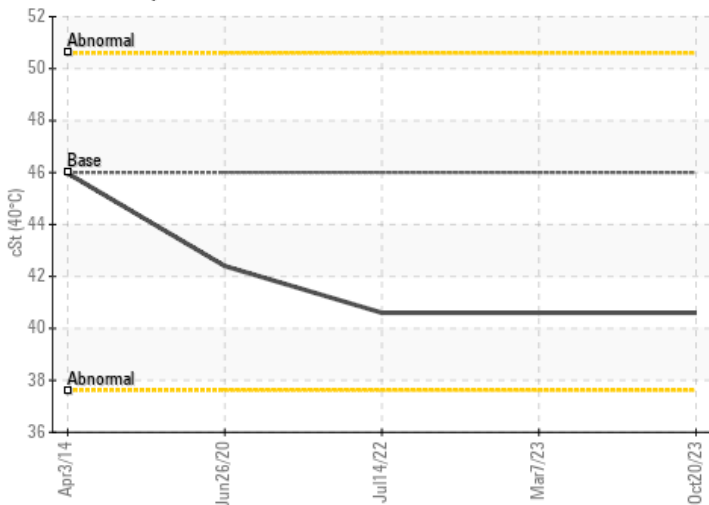
Ferrous Alloys



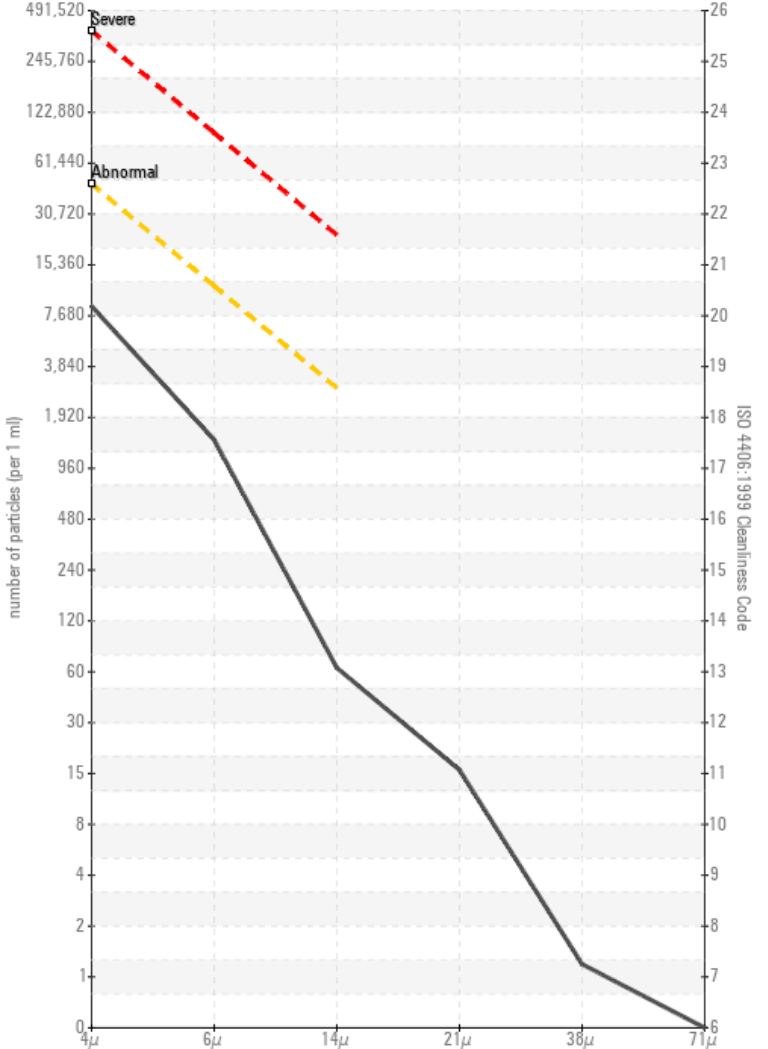
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

