



CONSTRUCTION EQUIPMENT

A11246 VOLVO EC220D 210876 - HYDRAULIC SYSTEM



Sample No: VCP430658
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A11246



SAMPLE INFORMATION

Sample Number	VCP430658	VCP416842	VCP393752	VCP358781
Sample Date	16 Oct 2023	19 Jun 2023	16 Mar 2023	28 Jun 2022
Machine Hours	13460	12979	12480	11085
Oil Hours	500	0	500	3000
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

WASTE MANAGEMENT - TELFORD
 400 PROGRESS DR
 TELFORD, PA
 US 18969-1191
 Contact: EDWARD ROGENER
 erogener@wm.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	44.1	43.5	43.5	41.9
Acid Number (AN)	mg KOH/g	0.37	0.41	0.48	0.39



CONTAMINATION

Particles >4µm		262	5989	1881	3065
Particles >6µm		54	1187	533	891
Particles >14µm		9	71	50	118
ISO 4406:1999 (c)		15/13/10	20/17/13	18/16/13	19/17/14
Silicon	ppm	1	1	3	1
Sodium	ppm	0	<1	<1	1
Potassium	ppm	1	0	<1	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	2	1	1	1
Copper	ppm	3	2	2	2
Lead	ppm	<1	0	<1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	8	7	6	6
Molybdenum	ppm	2	1	1	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	117	110	117	92
Magnesium	ppm	23	18	23	21
Zinc	ppm	465	498	493	429
Phosphorus	ppm	367	390	406	350
Barium	ppm	3	0	<1	0
Boron	ppm	1	<1	1	5

Depot: WASTEL
Unique No: 10711767
Signed: Wes Davis
Report Date: 26 Oct 2023

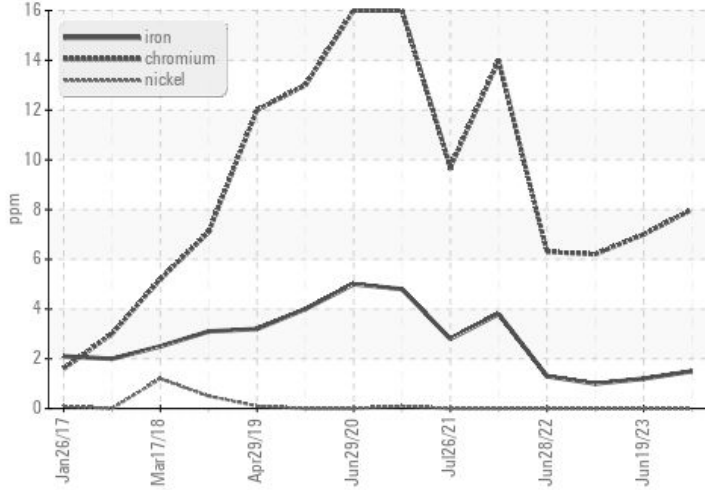


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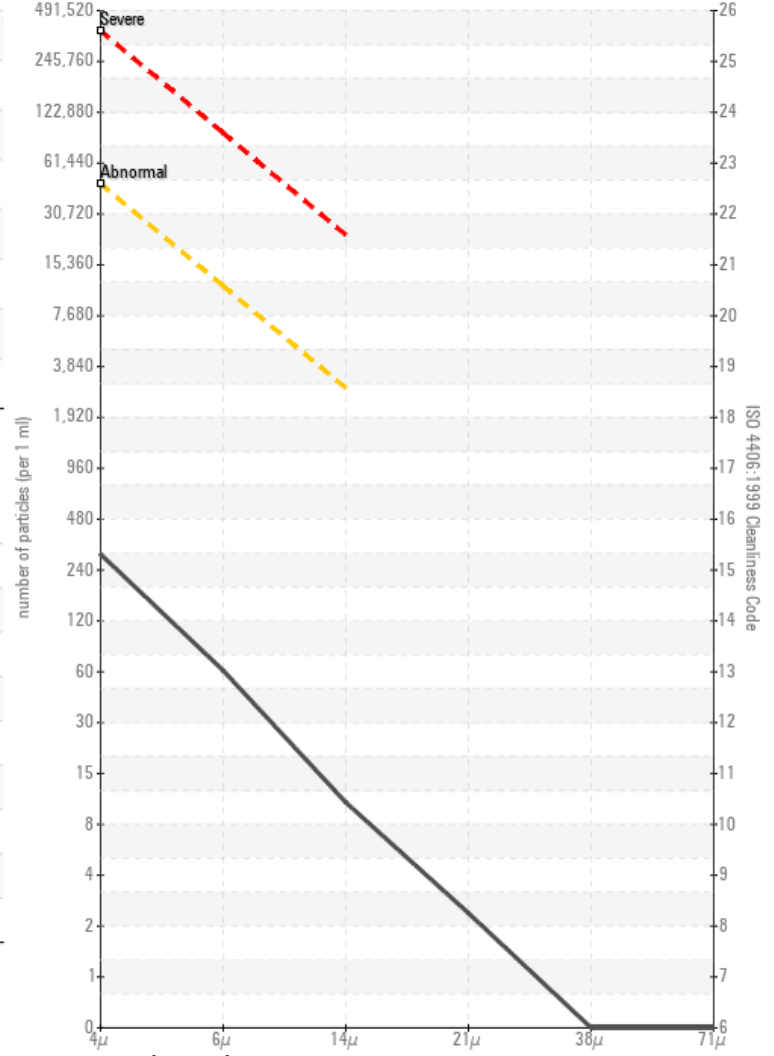


VOLVO GRAPHS

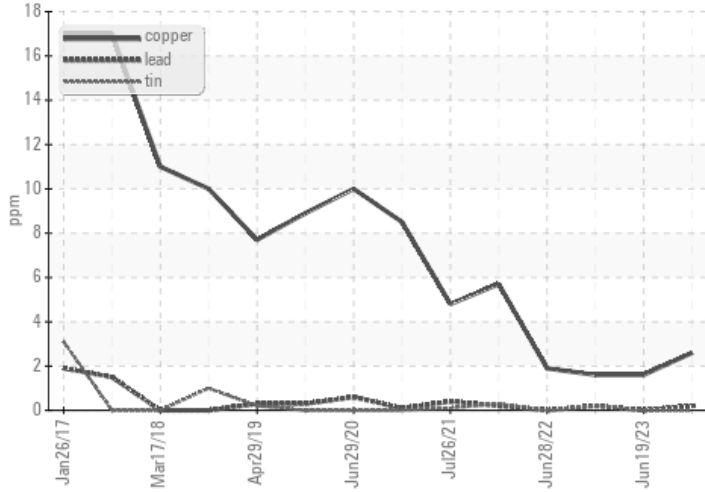
Ferrous Alloys



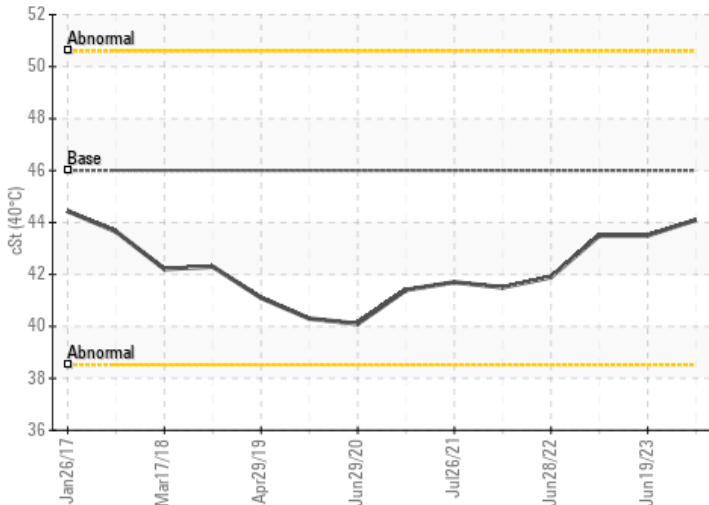
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

