



CONSTRUCTION EQUIPMENT

A10608 VOLVO ECR235D 2 10265 - HYDRAULIC SYSTEM



Sample No: VCP425976
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A10608



SAMPLE INFORMATION

Sample Number	VCP425976	VCP339396	VCBM001624	VCP267602
Sample Date	27 Jun 2023	09 Nov 2021	01 Apr 2021	26 Mar 2020
Machine Hours	7470	6940	6720	6180
Oil Hours	500	1000	500	2000
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

DYER QUARRY
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OIL CONDITION

Visc @ 40°C	cSt	41.4	42.4	40.9	41.0
Acid Number (AN)	mg KOH/g	0.56	0.490	0.582	0.802

CONTAMINATION

Particles >4µm	3015	21301	▲ 41808	5640	
Particles >6µm	280	4583	1257	1283	
Particles >14µm	9	256	50	60	
ISO 4406:1999 (c)	19/15/10	22/19/15	23/17/13	20/17/13	
Silicon	ppm	6	4	8	6
Sodium	ppm	<1	<1	2	1
Potassium	ppm	1	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	8	6	12	8
Copper	ppm	24	12	24	21
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	<1	<1	2	2
Chromium	ppm	2	<1	2	2
Molybdenum	ppm	1	1	1	1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	813	771	1099	1089
Magnesium	ppm	16	16	23	23
Zinc	ppm	686	622	832	828
Phosphorus	ppm	549	562	642	648
Barium	ppm	0	0	0	<1
Boron	ppm	10	11	22	24

Depot: DYEBIR
Unique No: 10547934
Signed: Don Baldrige
Report Date: 10 Jul 2023

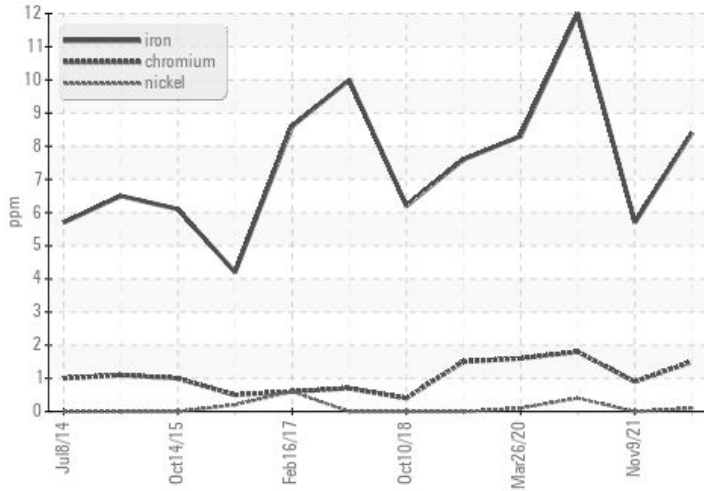


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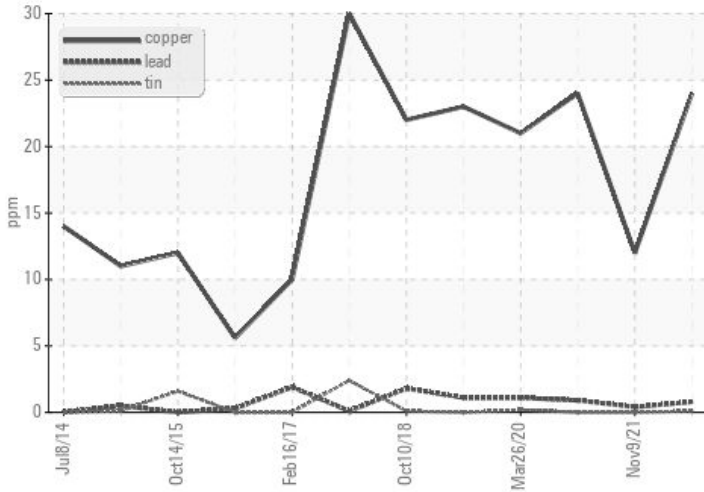


GRAPHS

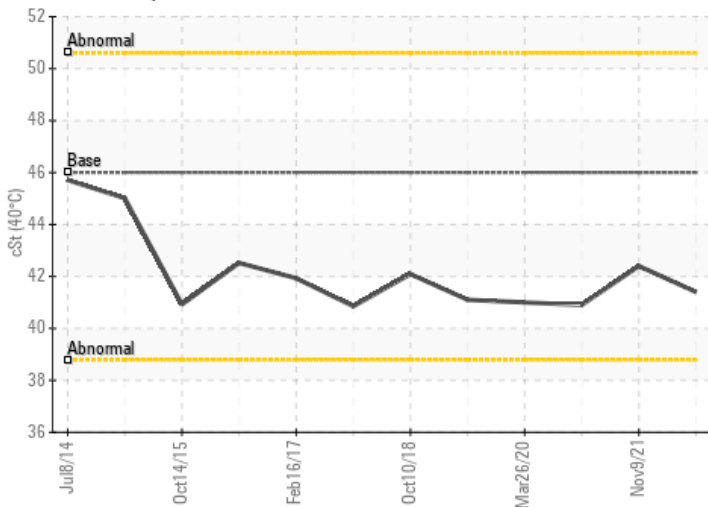
Ferrous Alloys



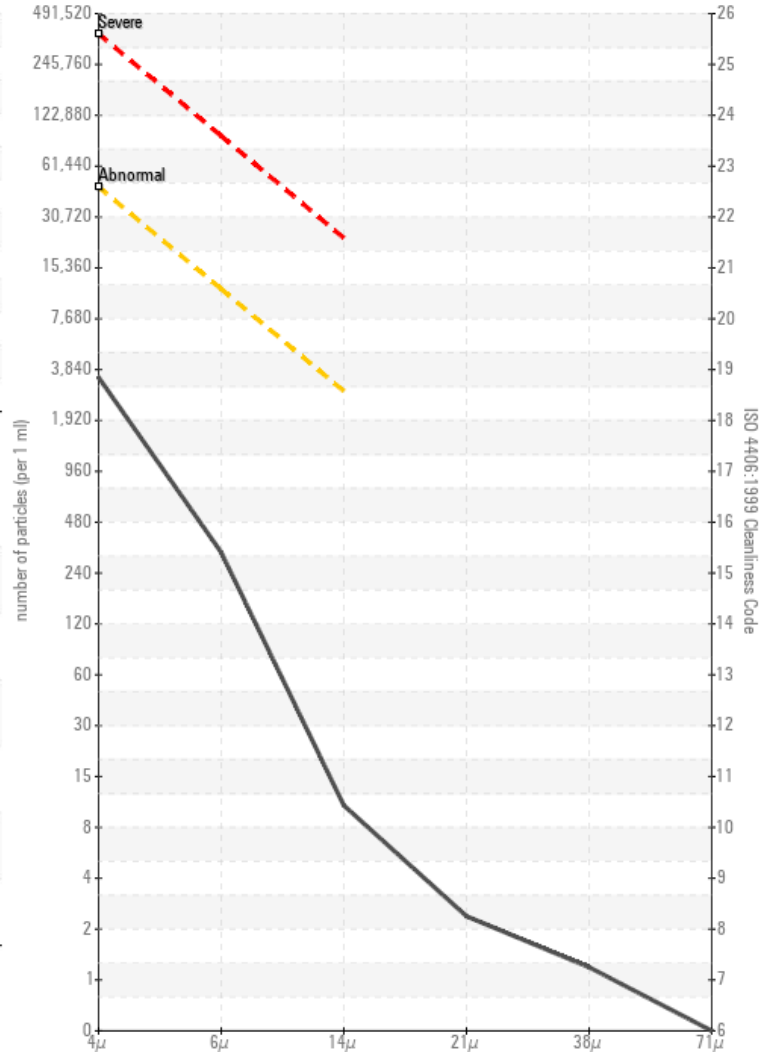
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

