



CONSTRUCTION EQUIPMENT

566273 AMERICAN/IMPO VOLVO ECR235EL 311427 - HYDRAULIC SYSTEM



Sample No: VCP425791
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 566273 AMERICAN/IMPO



SAMPLE INFORMATION

Sample Number	VCP425791	VCP394450	VCP376643	VCP344371
Sample Date	15 Jun 2023	09 Mar 2023	21 Jul 2022	23 Feb 2022
Machine Hours	4260	3792	2768	2210
Oil Hours	2000	1792	500	2210
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 JFARDELLA@ALTAEQUIPFL.COM
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 40°C	cSt	▲ 55.3	■ 51.1	■ 44.5	■ 43.6
Acid Number (AN)	mg KOH/g	■ 0.21	■ 0.26	■ 0.38	■ 0.29



CONTAMINATION

Particles >4µm	■ 1887	■ 2716	■ 8547	■ 23487	
Particles >6µm	■ 225	■ 434	■ 2501	■ 6335	
Particles >14µm	■ 12	■ 23	■ 299	■ 1025	
ISO 4406:1999 (c)	18/15/11	19/16/12	20/19/15	22/20/17	
Silicon	ppm	■ 2	■ 2	■ 2	■ 3
Sodium	ppm	■ 0	■ 1	■ 0	■ <1
Potassium	ppm	■ 1	■ 0	■ <1	■ <1

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ 13	■ 12	■ 7	■ 9
Copper	ppm	■ 12	■ 10	■ 9	■ 10
Lead	ppm	■ <1	■ 0	■ <1	■ <1
Tin	ppm	■ 0	■ 0	0	0
Aluminum	ppm	■ <1	■ <1	■ <1	■ 2
Chromium	ppm	■ <1	■ <1	■ 0	■ <1
Molybdenum	ppm	■ 2	■ 2	■ 4	■ 6
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ 0	■ <1	■ 0	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 75	■ 96	■ 154	■ 211
Magnesium	ppm	■ 4	■ 9	■ 14	■ 30
Zinc	ppm	■ 288	■ 313	■ 407	■ 378
Phosphorus	ppm	■ 222	■ 248	■ 313	■ 284
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ <1	■ 1	■ 5	■ 8

Depot: VOLVO0093
Unique No: 10550752
Signed: Don Baldrige
Report Date: 12 Jul 2023

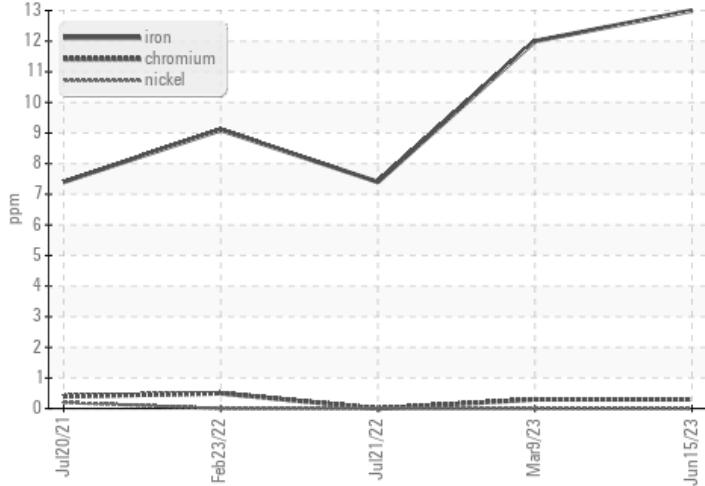


CONSTRUCTION EQUIPMENT

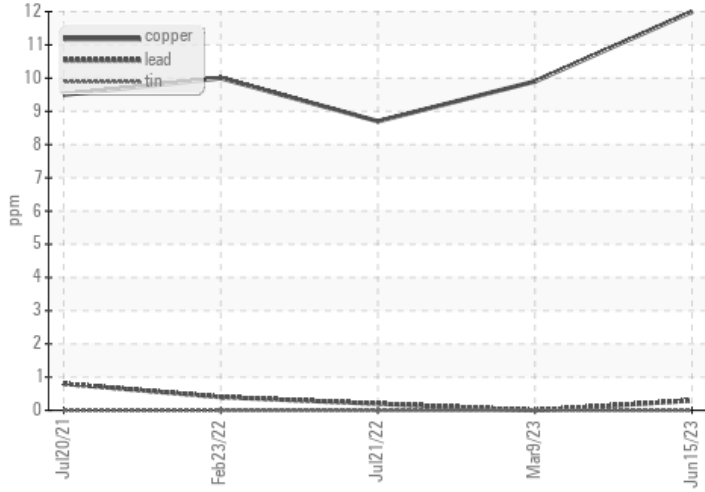


VOLVO GRAPHS

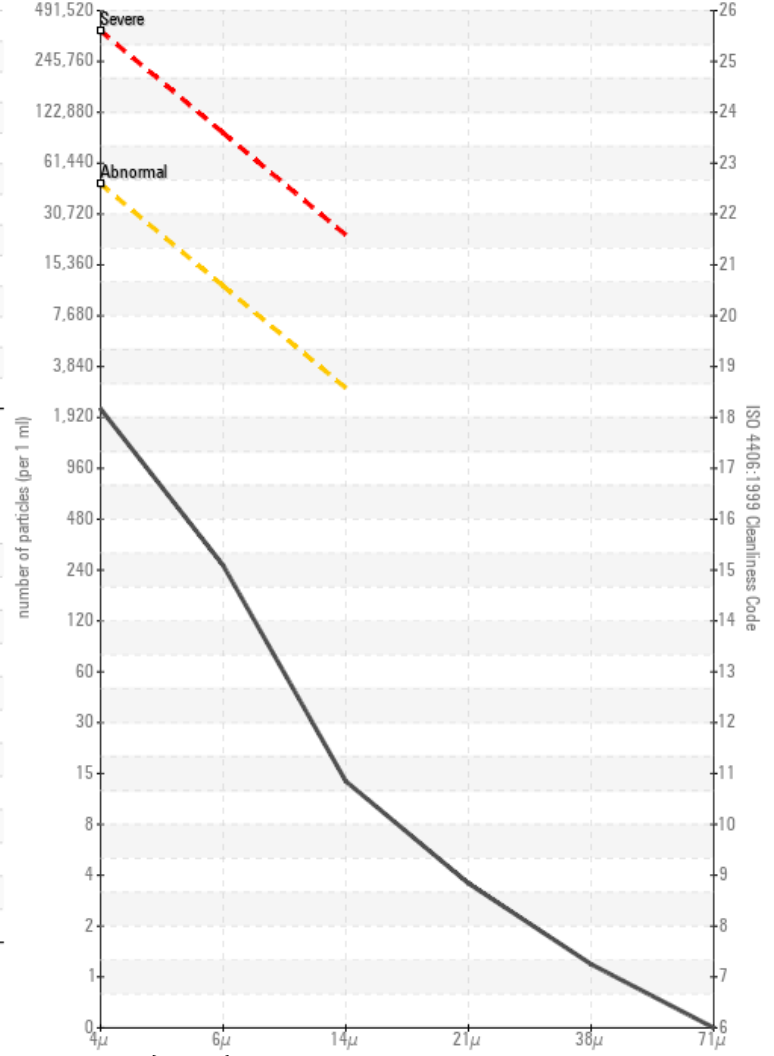
Ferrous Alloys



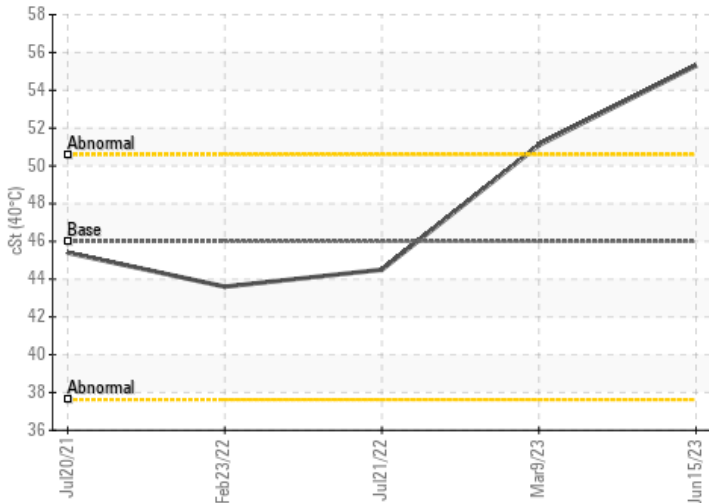
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number

