



CONSTRUCTION EQUIPMENT

SWA584249-10 VOLVO EC300E 314225 - HYDRAULIC SYSTEM



Sample No: VCP429954
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA584249-10



SAMPLE INFORMATION

Sample Number	VCP429954	VCP431675	VCP420315	VCP405637
Sample Date	14 Jun 2024	18 Mar 2024	07 Sep 2023	19 Jun 2023
Machine Hours	6470	5921	4869	4288
Oil Hours	2000	2000	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

DENALI WE CARE
 400 TORNE RD
 HILLBURN, NY
 US 10931
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	40.4	41.2	40.6	40.8
Acid Number (AN)	mg KOH/g	0.41	0.491	0.39	0.50

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		12334	---	1321	10598
Particles >6µm		3174	---	278	1380
Particles >14µm		137	---	15	67
ISO 4406:1999 (c)		21/19/14	---	18/15/11	21/18/13
Silicon	ppm	2	1	3	3
Sodium	ppm	3	<1	<1	0
Potassium	ppm	2	0	0	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are 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	4	3
Copper	ppm	10	9	18	18
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	0	<1
Chromium	ppm	<1	0	1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	45	58	55	45
Magnesium	ppm	0	0	2	<1
Zinc	ppm	447	388	414	402
Phosphorus	ppm	388	337	254	351
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: DENHIL
Unique No: 11096287
Signed: Jonathan Hester
Report Date: 25 Jun 2024

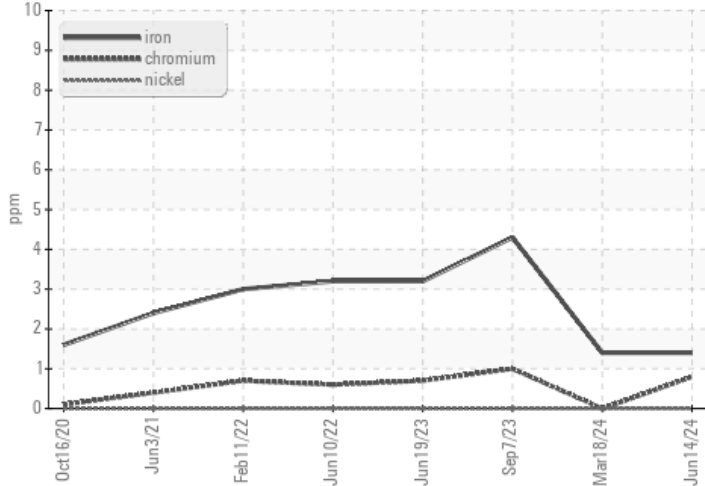


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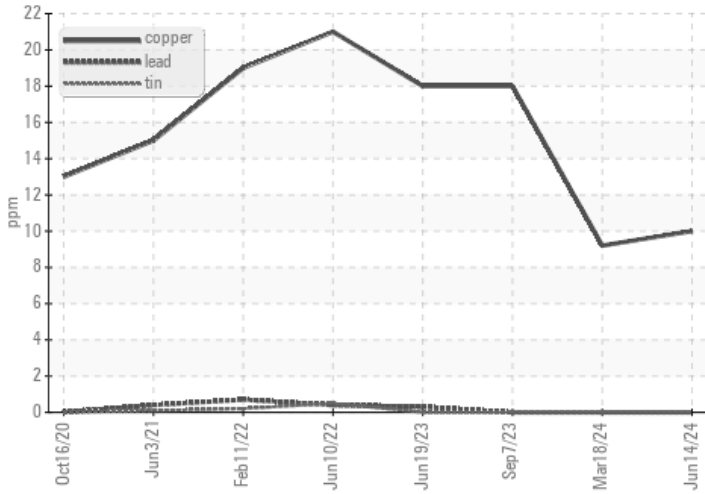


GRAPHS

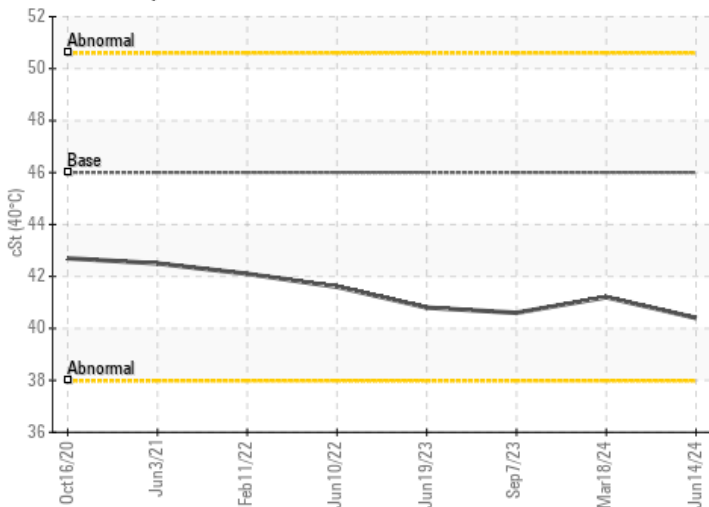
Ferrous Alloys



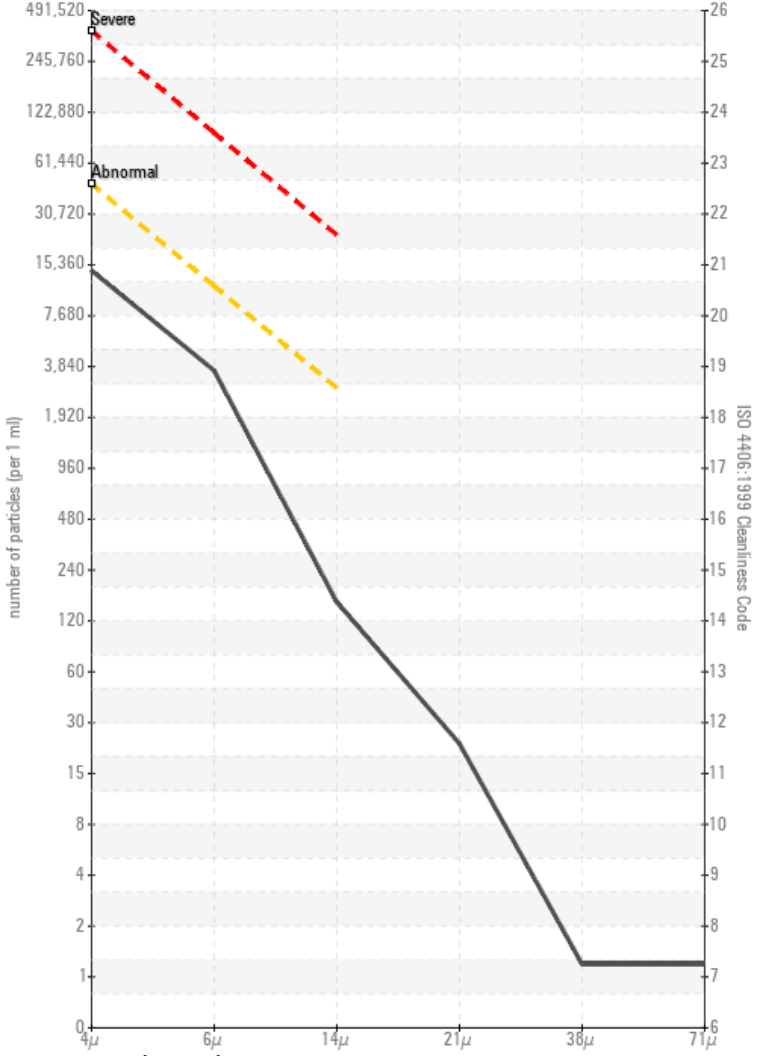
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

