



CONSTRUCTION EQUIPMENT

SWA VOLVO EC300E 314225 - HYDRAULIC SYSTEM



Sample No: VCP405637
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA



SAMPLE INFORMATION

Sample Number	VCP405637	VCP374140	VCP322101	VCP303344
Sample Date	19 Jun 2023	10 Jun 2022	11 Feb 2022	03 Jun 2021
Machine Hours	4288	2242	1600	1039
Oil Hours	0	2000	1600	1000
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

DENALI WE CARE

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



OIL CONDITION

Visc @ 40°C	cSt	40.8	41.6	42.1	42.5
Acid Number (AN)	mg KOH/g	0.50	0.46	0.42	1.636

T:
F:



CONTAMINATION

Water	%	---	---	---	0.199
Particles >4µm		10598	6763	12639	---
Particles >6µm		1380	753	2063	---
Particles >14µm		67	55	181	---
ISO 4406:1999 (c)		21/18/13	20/17/13	21/18/15	---
Silicon	ppm	3	3	2	4
Sodium	ppm	0	0	<1	<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	3	3	3	2
Copper	ppm	18	21	19	15
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	<1	<1	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	45	64	77	78
Magnesium	ppm	<1	0	0	<1
Zinc	ppm	402	425	478	464
Phosphorus	ppm	351	363	413	345
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	2	1

Depot: DENHIL
Unique No: 10604751
Signed: Wes Davis
Report Date: 16 Aug 2023

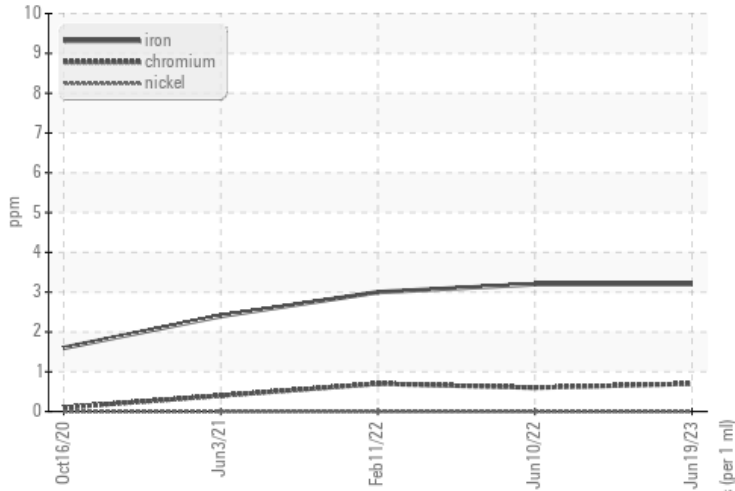


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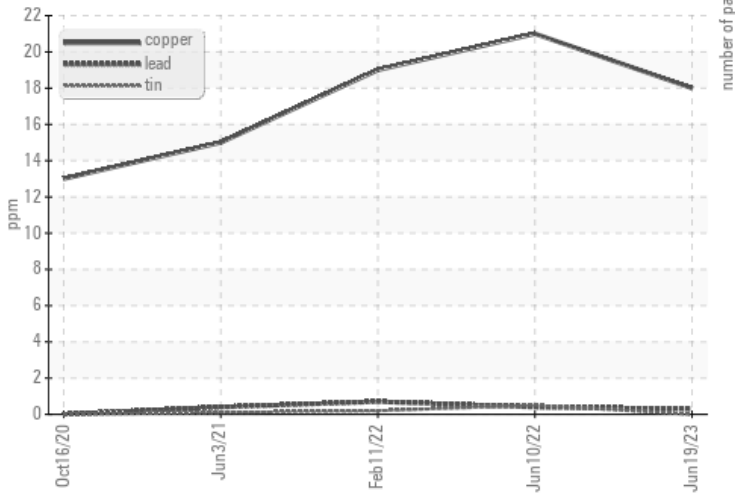


GRAPHS

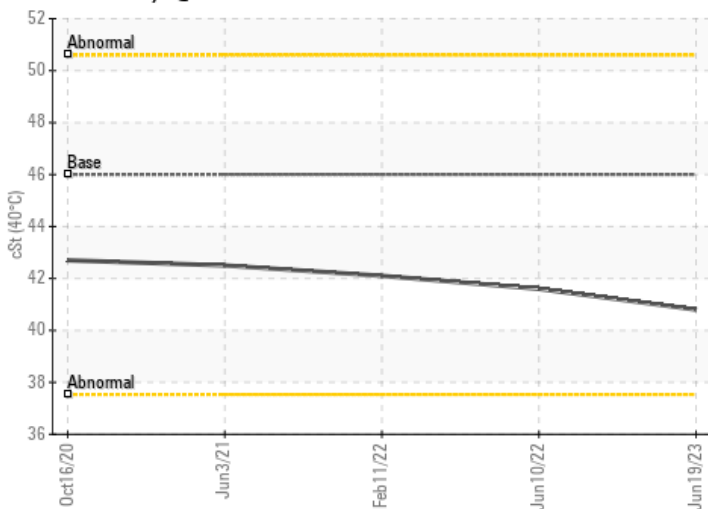
Ferrous Alloys



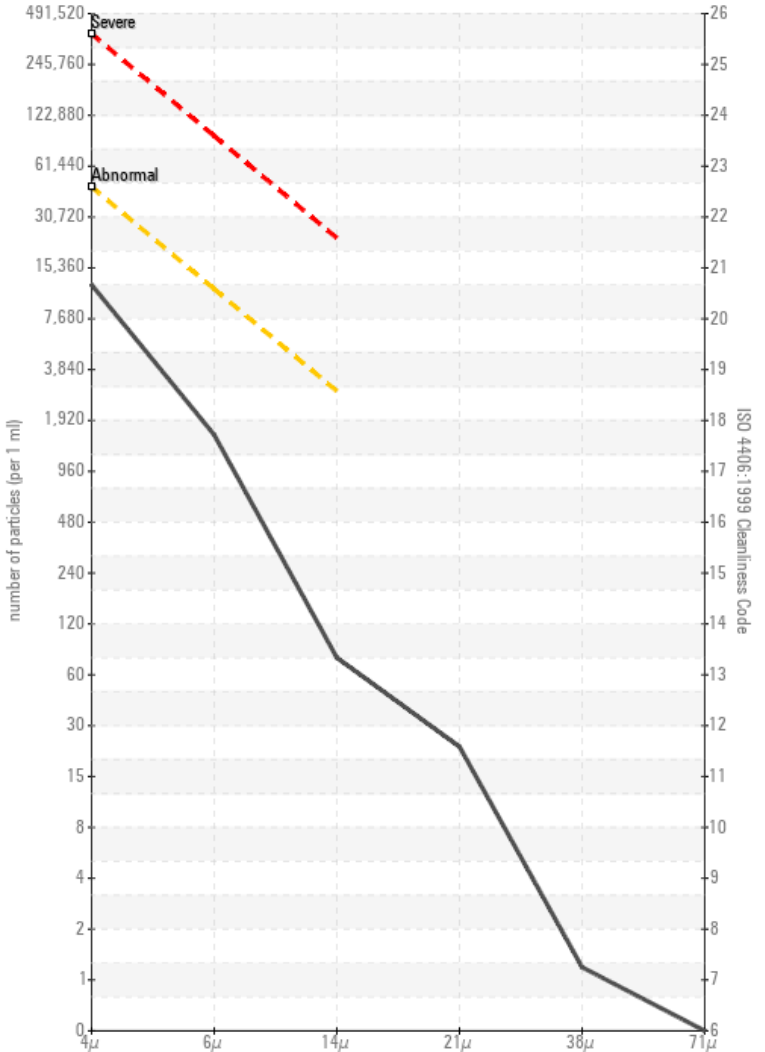
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

