



CONSTRUCTION EQUIPMENT

HILLSBOROUGH CO BOC VOLVO EW160EL 324178 - HYDRAULIC SYSTEM



Sample No: VCP449884
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: HILLSBOROUGH CO BOC



SAMPLE INFORMATION

Sample Number	VCP449884	VCP433372	---	---
Sample Date	13 Jun 2024	07 Nov 2023	---	---
Machine Hours	1437	479	---	---
Oil Hours	0	479	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	41.9	42.1	---	---
Acid Number (AN)	mg KOH/g	0.39	0.43	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		2092	12681	---	---
Particles >6µm		585	2450	---	---
Particles >14µm		36	84	---	---
ISO 4406:1999 (c)		18/16/12	21/18/14	---	---
Silicon	ppm	5	5	---	---
Sodium	ppm	0	0	---	---
Potassium	ppm	2	2	---	---

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	5	3	---	---
Copper	ppm	15	8	---	---
Lead	ppm	2	1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	3	2	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	<1	<1	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	67	76	---	---
Magnesium	ppm	<1	<1	---	---
Zinc	ppm	379	365	---	---
Phosphorus	ppm	355	282	---	---
Barium	ppm	1	0	---	---
Boron	ppm	0	0	---	---

Depot: VOLVO0093
Unique No: 11089653
Signed: Wes Davis
Report Date: 24 Jun 2024

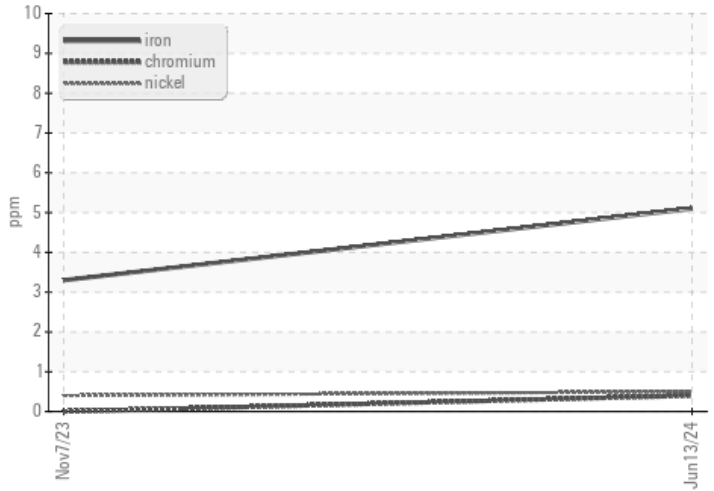


CONSTRUCTION EQUIPMENT

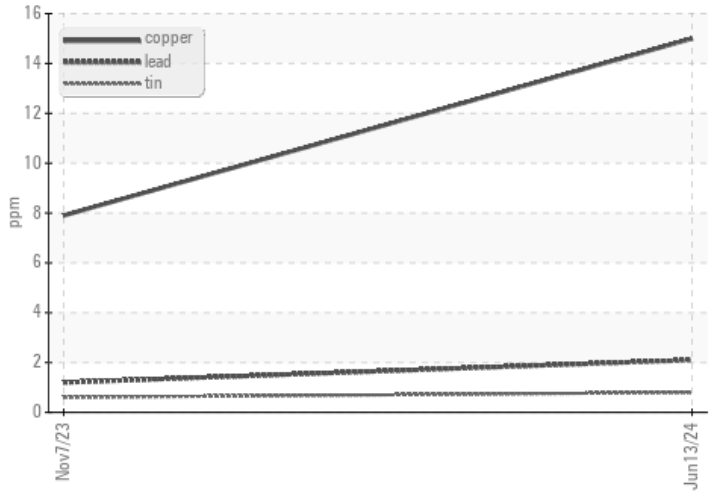


VOLVO GRAPHS

Ferrous Alloys



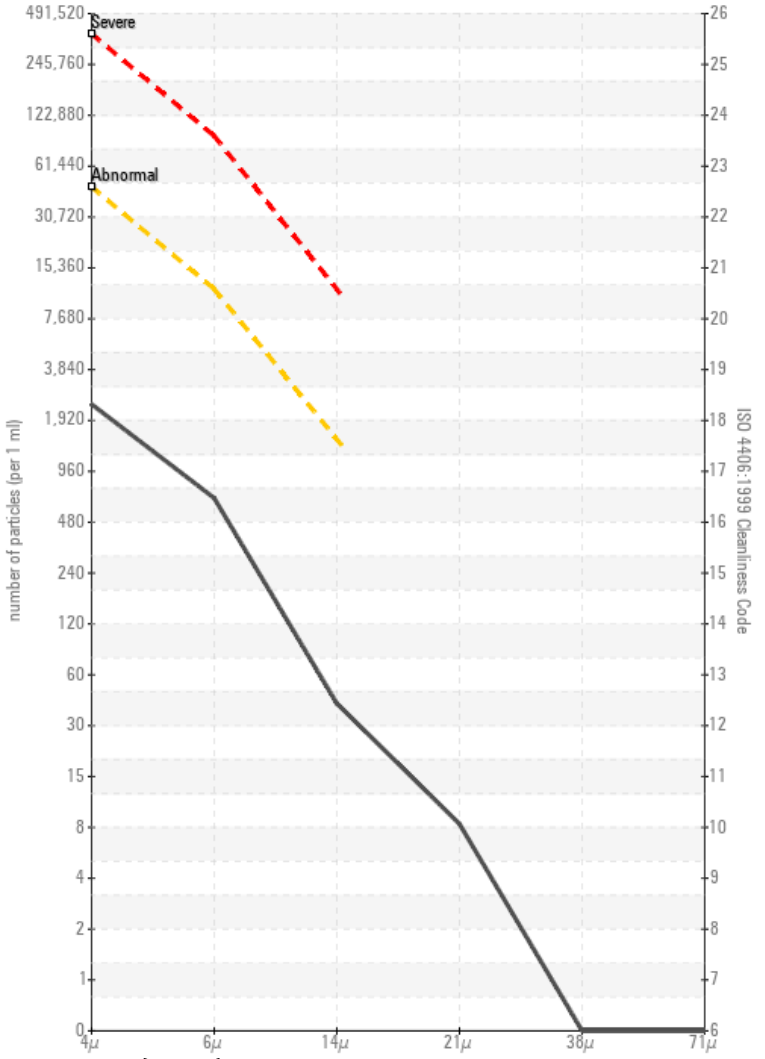
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

