



CONSTRUCTION EQUIPMENT

SPM632902 MILBURN DE VOLVO ECR145EL 314529 - HYDRAULIC SYSTEM



Sample No: VCP429101
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM632902 MILBURN DE



SAMPLE INFORMATION

Sample Number	VCP429101	VCP404916	VCP377333	---
Sample Date	10 Nov 2023	24 Mar 2023	11 May 2022	---
Machine Hours	2235	1710	1215	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Not Chngd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:



OIL CONDITION

Visc @ 40°C	cSt	42.8	44.6	41.9	---
Acid Number (AN)	mg KOH/g	0.43	0.62	0.50	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		7065	3693	13502	---
Particles >6µm		1036	951	1715	---
Particles >14µm		55	107	91	---
ISO 4406:1999 (c)		20/17/13	19/17/14	21/18/14	---
Silicon	ppm	6	5	2	---
Sodium	ppm	3	0	1	---
Potassium	ppm	0	1	0	---

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	5	4	---
Copper	ppm	2	19	20	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	<1	0	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	<1	<1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

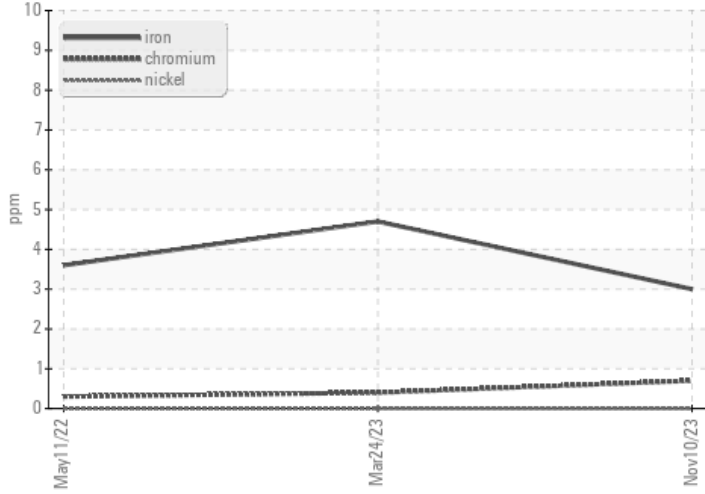
Calcium	ppm	457	858	100	---
Magnesium	ppm	3	9	2	---
Zinc	ppm	457	683	474	---
Phosphorus	ppm	370	515	397	---
Barium	ppm	0	0	0	---
Boron	ppm	13	24	2	---

Depot: VOLVO8885
Unique No: 10766933
Signed: Wes Davis
Report Date: 04 Dec 2023

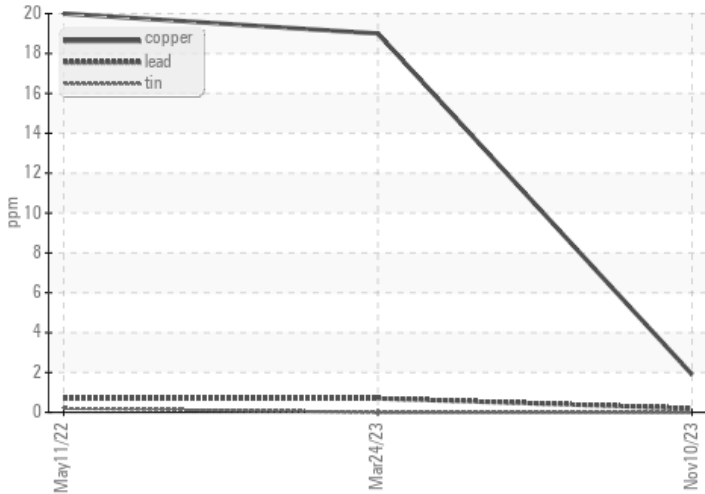


VOLVO GRAPHS

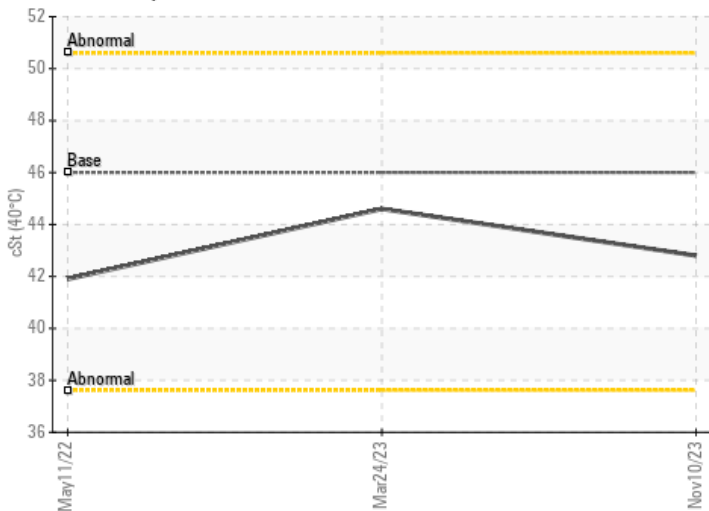
Ferrous Alloys



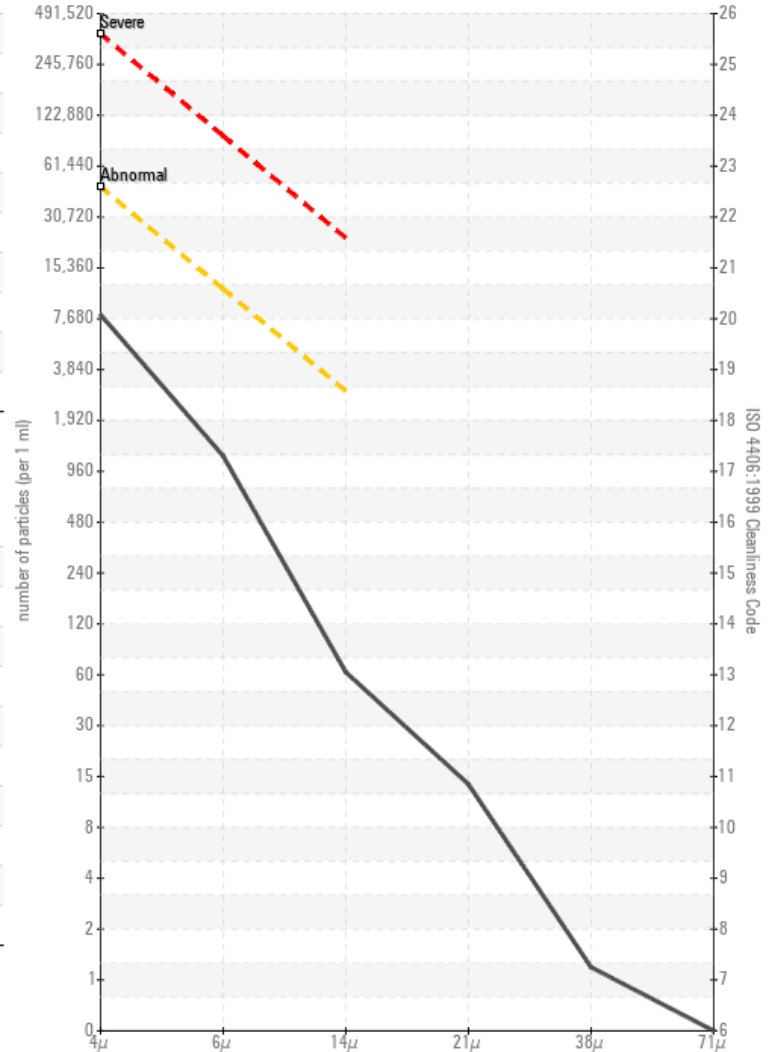
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

