



CONSTRUCTION EQUIPMENT

SPM717251 ALPINE VOLVO EC750EHR 391010 - HYDRAULIC SYSTEM



Sample No: VCP444423
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM717251 ALPINE



SAMPLE INFORMATION

Sample Number	VCP444423	VCP422983	VCP390785	VCP415424
Sample Date	28 May 2024	12 Sep 2023	12 Sep 2023	06 Sep 2023
Machine Hours	2944	1989	1985	1979
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: MARK DEROSA
 mark.derosa@altg.com
 T: (248)356-5200
 F:



OIL CONDITION

Visc @ 40°C	cSt	41.4	41.9	42.1	43.1
Acid Number (AN)	mg KOH/g	0.42	0.39	0.38	0.47



CONTAMINATION

Water	%	NEG	NEG	▲ 0.251	▲ 0.854
Particles >4µm		▲ 144954	■ 34593	---	---
Particles >6µm		● 13144	■ 362	---	---
Particles >14µm		■ 287	■ 11	---	---
ISO 4406:1999 (c)		24/21/15	22/16/11	---	---
Silicon	ppm	■ 0	■ 1	■ 1	■ 3
Sodium	ppm	■ 2	■ 1	■ <1	■ 2
Potassium	ppm	■ 0	■ <1	■ 1	■ 1

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	■ 9	■ 6	■ 6	■ 14
Copper	ppm	■ 12	■ 7	■ 7	■ 11
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ 0	■ 0	■ 0	■ <1
Aluminum	ppm	■ 0	■ <1	■ <1	■ <1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 0	■ 0	■ 0	■ <1
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 0	■ 0	■ 0	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 204	■ 138	■ 134	■ 212
Magnesium	ppm	■ 4	■ 5	■ 4	■ 5
Zinc	ppm	■ 491	■ 497	■ 506	■ 550
Phosphorus	ppm	■ 417	■ 412	■ 417	■ 451
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 0	■ 0	■ 0	■ 0

Depot: VOLVO8885
Unique No: 11059693
Signed: Wes Davis
Report Date: 04 Jun 2024

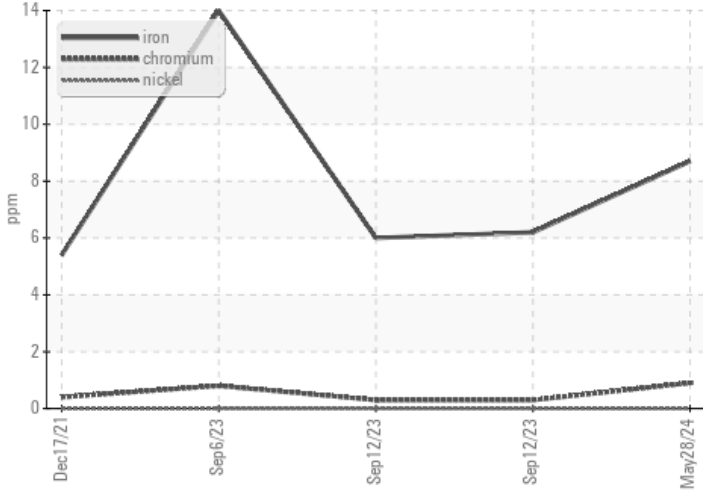


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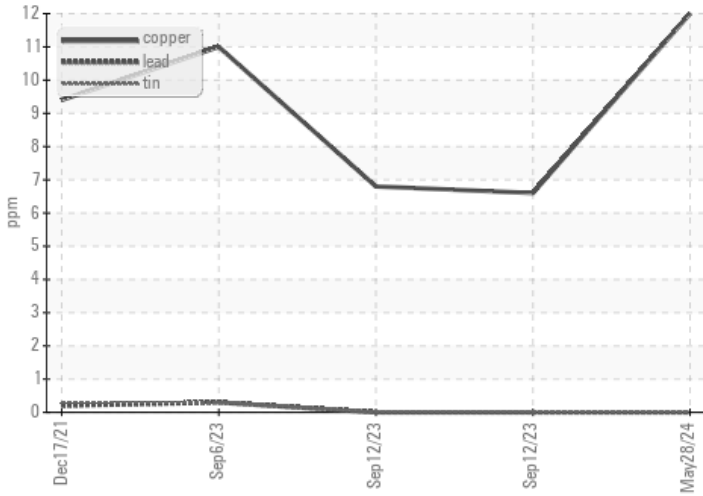


GRAPHS

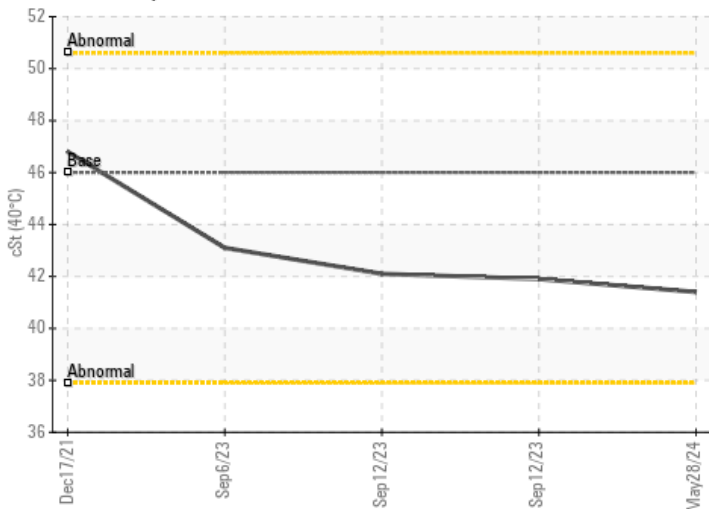
Ferrous Alloys



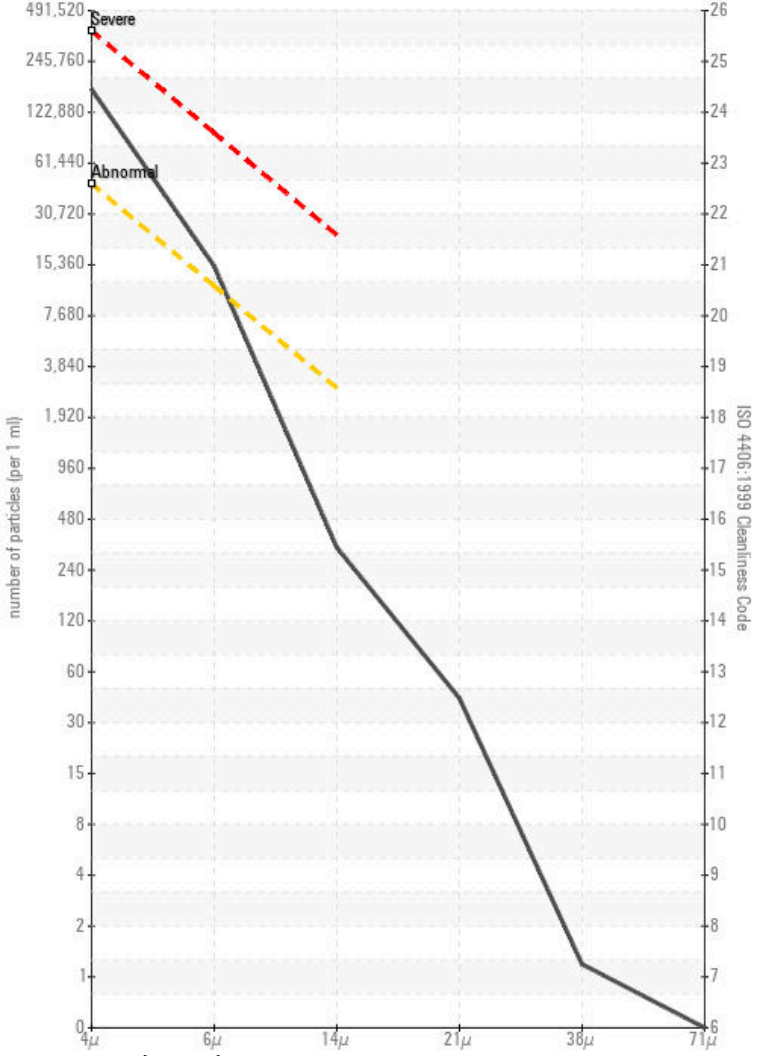
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

