



CONSTRUCTION EQUIPMENT

372291 VOLVO EC350EL 314290 - HYDRAULIC SYSTEM



Sample No: VCP392447
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 372291



SAMPLE INFORMATION

Sample Number	VCP392447	VCP353041	---	---
Sample Date	19 Jul 2023	19 Jul 2023	---	---
Machine Hours	2621	2621	---	---
Oil Hours	2621	2621	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

STRONGCO EQUIP (AB)

6 - 38403 BURNT LAKE TRAIL
 RED DEER COUNTY, AB
 CA T4S 2L4
 Contact: Perry Doyle
 pdoyle@strongco.com
 T: (403)346-3473
 F: (403)346-3487



OIL CONDITION

Visc @ 40°C	cSt	▲ 36.1	▲ 35.8	---	---
-------------	-----	---------------	--------	-----	-----



CONTAMINATION

Particles >4µm		■ 3949	■ 1997	---	---
Particles >6µm		■ 852	■ 548	---	---
Particles >14µm		■ 66	■ 44	---	---
ISO 4406:1999 (c)		19/17/13	18/16/13	---	---
Silicon	ppm	■ 4	■ 4	---	---
Sodium	ppm	■ <1	■ 1	---	---
Potassium	ppm	■ <1	■ <1	---	---

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as VOLVO SUPER HYDRAULIC OIL 46, however, a fluid match indicates that this fluid is ISO 32 AW Hydraulic Oil. Please confirm the oil type and grade on your next sample. 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. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	■ 5	■ 5	---	---
Copper	ppm	■ 13	■ 13	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ <1	■ <1	---	---
Chromium	ppm	■ 1	■ 1	---	---
Molybdenum	ppm	■ <1	■ <1	---	---
Nickel	ppm	■ <1	■ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 0	■ 0	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	117	119	---	---
Magnesium	ppm	■ 6	■ 6	---	---
Zinc	ppm	■ 481	■ 484	---	---
Phosphorus	ppm	■ 410	■ 412	---	---
Barium	ppm	■ <1	■ <1	---	---
Boron	ppm	■ <1	■ <1	---	---

Depot: VOLVO9652
Unique No: 5616538
Signed: Kevin Marson
Report Date: 24 Jul 2023

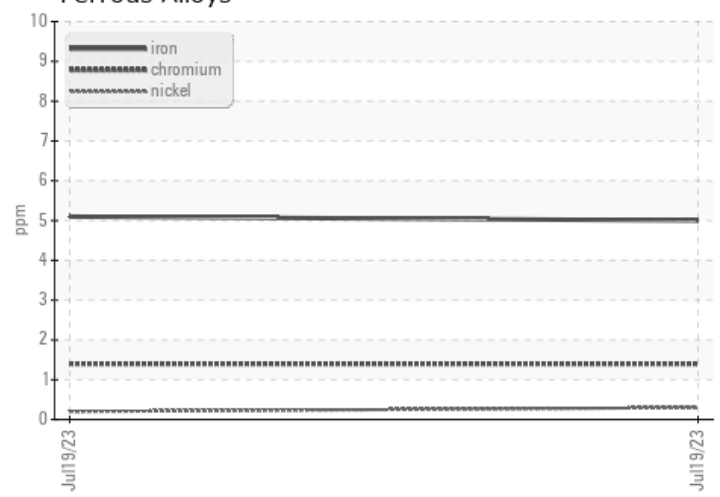


CONSTRUCTION EQUIPMENT

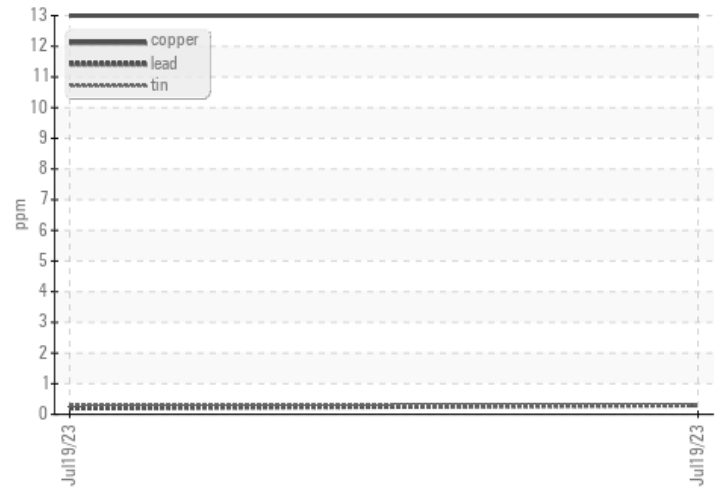


GRAPHS

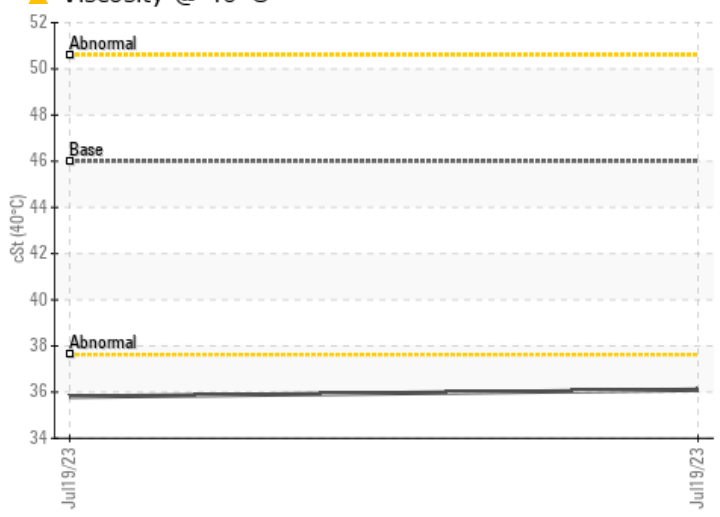
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

