



CONSTRUCTION EQUIPMENT

238406 VOLVO EC220E 3 10188 - HYDRAULIC SYSTEM



Sample No: VCP260287
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 238406



STRONGCO EQUIPMENT--CALGARY
 7923 54TH STREET SE
 CALGARY, AB
 CA T2C 4R7
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SAMPLE INFORMATION

Sample Number	VCP260287	---	---	---
Sample Date	30 Mar 2020	---	---	---
Machine Hours	4011	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	35.0	---	---	---
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CONTAMINATION

Particles >4µm		■ 8487	---	---	---
Particles >6µm		■ 1032	---	---	---
Particles >14µm		■ 17	---	---	---
ISO 4406:1999 (c)		20/17/11	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ <1	---	---	---

WEAR METALS

Iron	ppm	■ 10	---	---	---
Copper	ppm	■ 6	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 216	---	---	---
Magnesium	ppm	■ 11	---	---	---
Zinc	ppm	■ 439	---	---	---
Phosphorus	ppm	■ 435	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 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. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: VOLVO3909
Unique No: 5031139
Signed: Kevin Marson
Report Date: 08 Apr 2020

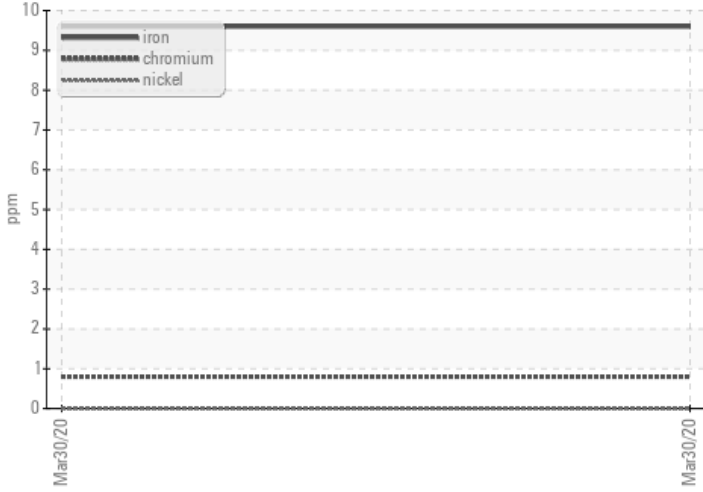


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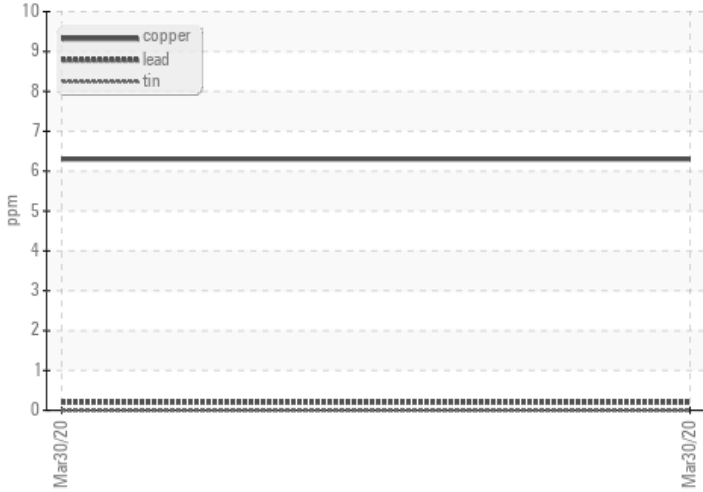


GRAPHS

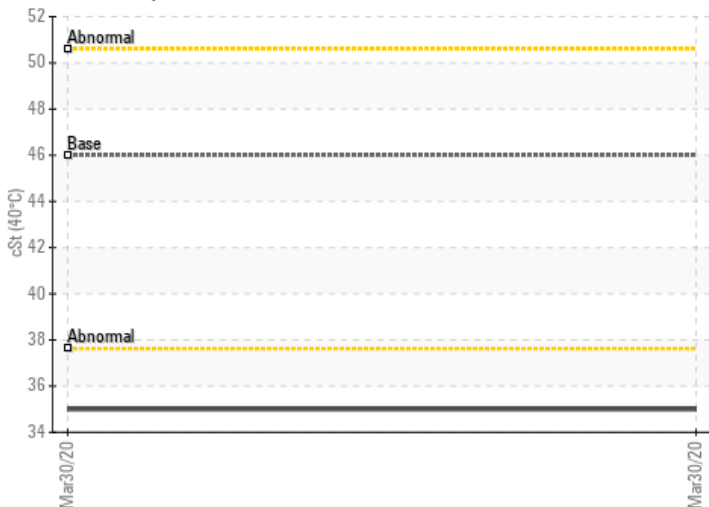
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

