



CONSTRUCTION EQUIPMENT

01-90-102 VOLVO EW220E VCEW220ECC00323005 - HYDRAULIC SYSTEM



Sample No: VC458410
Oil Type: ISO 32
Job No: 01-90-102



SAMPLE INFORMATION

Sample Number	VC458410	VCE117357	---	---
Sample Date	01 Aug 2023	19 Oct 2020	---	---
Machine Hours	4695	1502	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	ABNORMAL	---	---

CITY OF REGINA - FLEET SERVICES DEPT
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OIL CONDITION

Visc @ 40°C	cSt	37.8	▲ 39.1	---	---
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CONTAMINATION

Particles >4µm		■ 2262	■ 405	---	---
Particles >6µm		■ 448	■ 114	---	---
Particles >14µm		■ 14	■ 11	---	---
ISO 4406:1999 (c)		18/16/11	16/14/11	---	---
Silicon	ppm	■ 6	■ 5	---	---
Sodium	ppm	■ 1	■ 1	---	---
Potassium	ppm	■ 1	■ <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. The oil viscosity is higher than typical. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	■ 3	■ 1	---	---
Copper	ppm	■ 13	■ 5	---	---
Lead	ppm	■ 1	■ 1	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	■ 1	■ <1	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 0	■ <1	---	---
Nickel	ppm	■ <1	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 0	■ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 107	■ 129	---	---
Magnesium	ppm	■ 1	■ 1	---	---
Zinc	ppm	■ 598	■ 659	---	---
Phosphorus	ppm	■ 491	■ 491	---	---
Barium	ppm	■ 0	■ <1	---	---
Boron	ppm	■ <1	■ <1	---	---

Depot: CITREG
Unique No: 5630597
Signed: Kevin Marson
Report Date: 23 Aug 2023

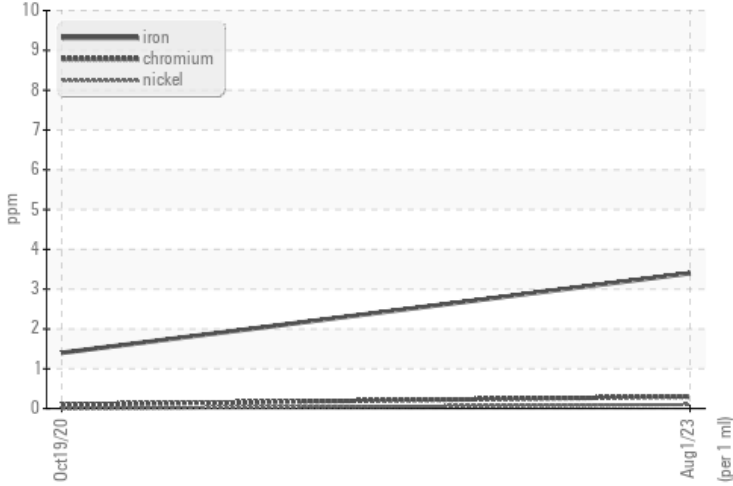


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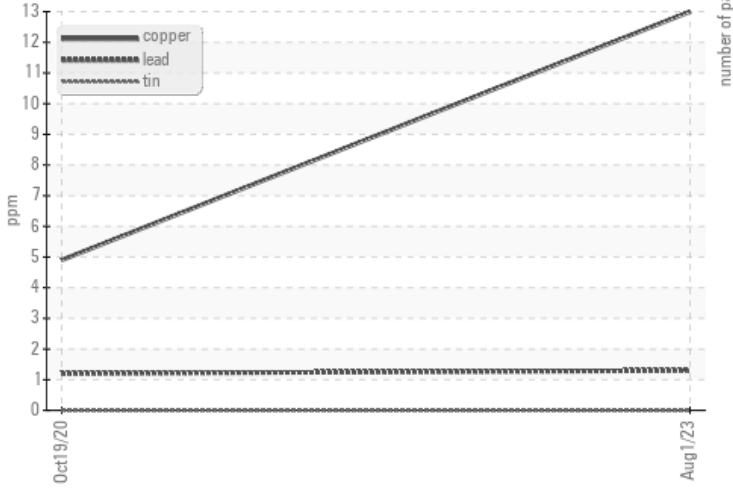


GRAPHS

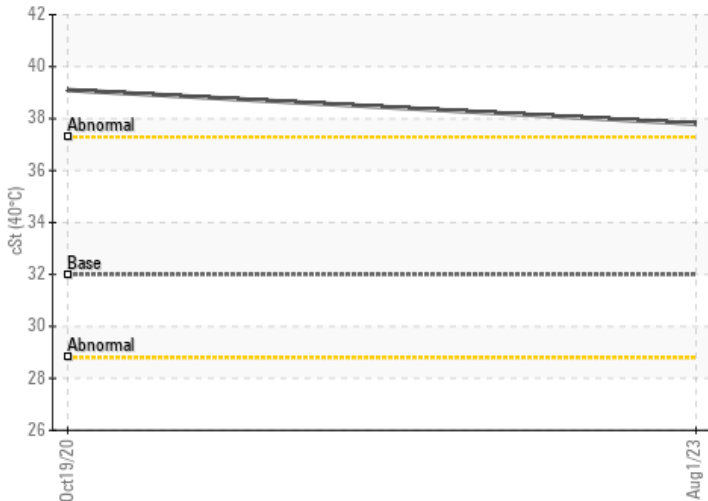
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

