



# CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY/250 HOUR CSA 19173

CATERPILLAR 304 CR 985 (S/N NAB02902) - HYDRAULIC SYSTEM



**Sample No:** VCP418364  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 19173



## SAMPLE INFORMATION

Sample Number	VCP418364	VCP0007193	VCP0000284	---
Sample Date	12 Jul 2023	26 Jan 2023	07 Feb 2022	---
Machine Hours	9045	9045	9038	---
Oil Hours	0	9045	9038	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

**TRIANGLE GRADING AND PAVING INC**  
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 US 27216  
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## OIL CONDITION

Visc @ 40°C	cSt	40.0	39.5	40.7	---
Acid Number (AN)	mg KOH/g	1.33	1.45	1.27	---

## CONTAMINATION

Particles >4µm		12863	13426	42276	---
Particles >6µm		2951	1107	5698	---
Particles >14µm		244	12	565	---
ISO 4406:1999 (c)		21/19/15	21/17/11	23/20/16	---
Silicon	ppm	7	9	6	---
Sodium	ppm	0	0	0	---
Potassium	ppm	3	4	0	---

## Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## WEAR METALS

Iron	ppm	2	3	2	---
Copper	ppm	5	5	4	---
Lead	ppm	<1	<1	0	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	<1	0	<1	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	5	6	4	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	0	0	0	---

## ADDITIVES

Calcium	ppm	1225	1358	1043	---
Magnesium	ppm	389	494	685	---
Zinc	ppm	948	1060	1088	---
Phosphorus	ppm	786	899	960	---
Barium	ppm	0	0	0	---
Boron	ppm	7	7	5	---

**Depot:** TRIBUR  
**Unique No:** 10587173  
**Signed:** Don Baldrige  
**Report Date:** 05 Aug 2023

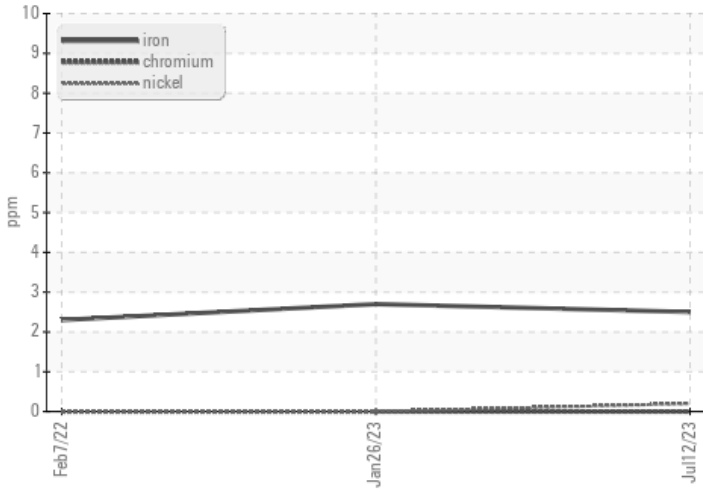


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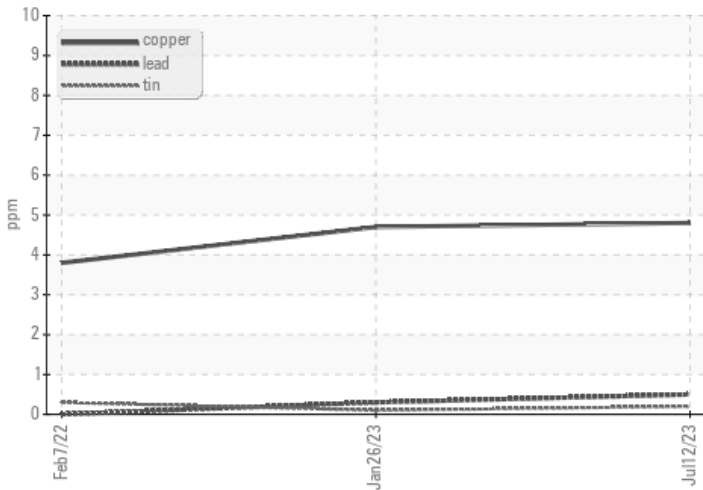


## VOLVO GRAPHS

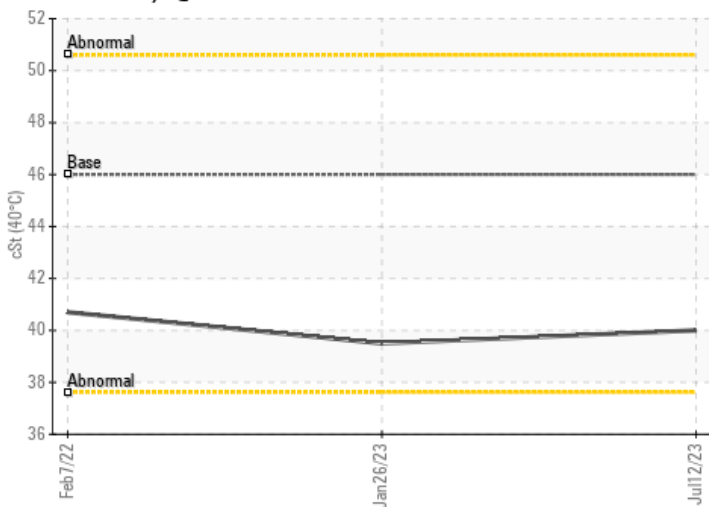
### Ferrous Alloys



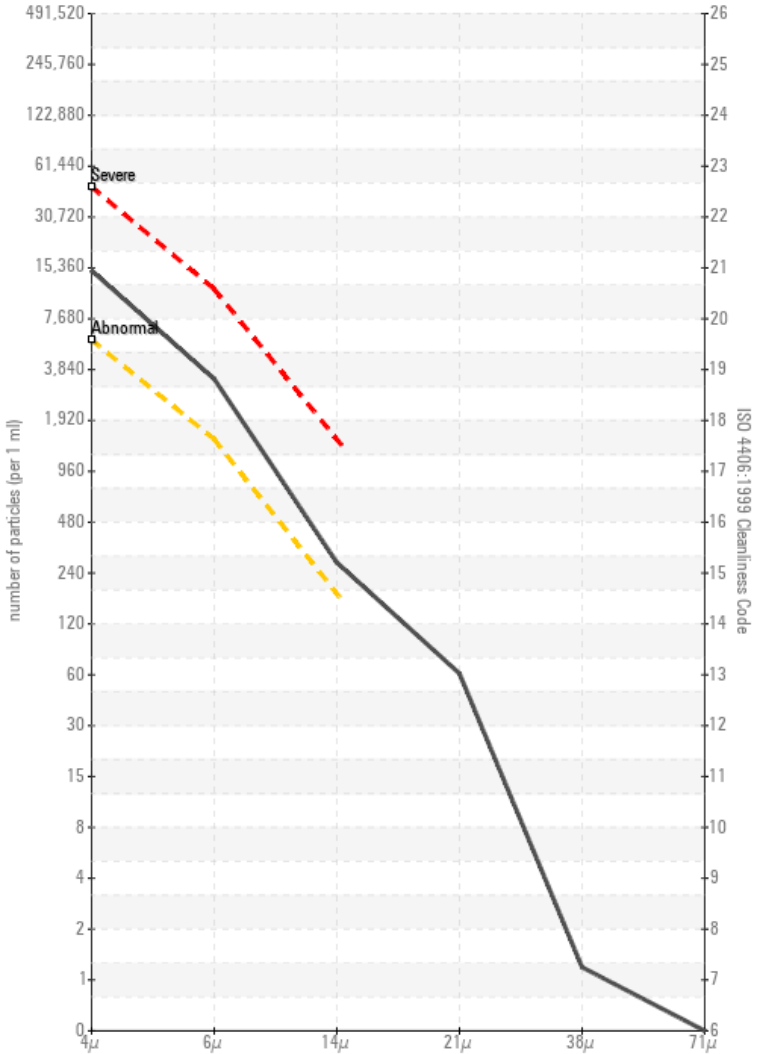
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

