



# CONSTRUCTION EQUIPMENT

## 579651 DIPRO CATERPILLAR 972M HLSJ02687 - HYDRAULIC SYSTEM



**Sample No:** VCP414165  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 579651 DIPRO



### SAMPLE INFORMATION

Sample Number	<b>VCP414165</b>	VCP382967	---	---
Sample Date	<b>10 Jul 2023</b>	18 Jan 2023	---	---
Machine Hours	<b>14435</b>	12151	---	---
Oil Hours	<b>1000</b>	4000	---	---
Oil Changed	<b>Not Chngd</b>	Changed	---	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	---	---

**ALTA EQUIPMENT COMPANY - METRO WEST**  
 56195 PONTIAC TRAIL  
 NEW HUDSON, MI  
 US 48165  
 Contact: PAUL CONZ  
 paul.conz@altg.com  
 T: (313)348-8861  
 F: (248)356-2029



### OIL CONDITION

Visc @ 40°C	cSt	<b>41.1</b>	▲ 62.6	---	---
Acid Number (AN)	mg KOH/g	<b>0.76</b>	■ 1.59	---	---



### CONTAMINATION

Particles >4µm		▲ <b>31106</b>	---	---	---
Particles >6µm		▲ <b>8013</b>	---	---	---
Particles >14µm		▲ <b>366</b>	---	---	---
ISO 4406:1999 (c)		<b>22/20/16</b>	---	---	---
Silicon	ppm	■ <b>2</b>	▲ 36	---	---
Sodium	ppm	■ <b>3</b>	■ 4	---	---
Potassium	ppm	■ <b>1</b>	■ <1	---	---

### Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. 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	▲ <b>37</b>	■ 4	---	---
Copper	ppm	■ <b>5</b>	■ 4	---	---
Lead	ppm	■ <b>0</b>	■ 4	---	---
Tin	ppm	■ <b>0</b>	■ <1	---	---
Aluminum	ppm	■ <b>0</b>	■ 1	---	---
Chromium	ppm	■ <b>2</b>	■ 0	---	---
Molybdenum	ppm	■ <b>&lt;1</b>	■ 0	---	---
Nickel	ppm	■ <b>0</b>	■ 0	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	■ <b>&lt;1</b>	■ <1	---	---
Vanadium	ppm	<b>&lt;1</b>	0	---	---



### ADDITIVES

Calcium	ppm	■ <b>110</b>	■ 128	---	---
Magnesium	ppm	■ <b>4</b>	■ 6	---	---
Zinc	ppm	■ <b>729</b>	■ 617	---	---
Phosphorus	ppm	■ <b>571</b>	■ 446	---	---
Barium	ppm	■ <b>0</b>	■ 0	---	---
Boron	ppm	■ <b>0</b>	■ 2	---	---

**Depot:** VOLVO2990  
**Unique No:** 10559885  
**Signed:** Jonathan Hester  
**Report Date:** 17 Jul 2023

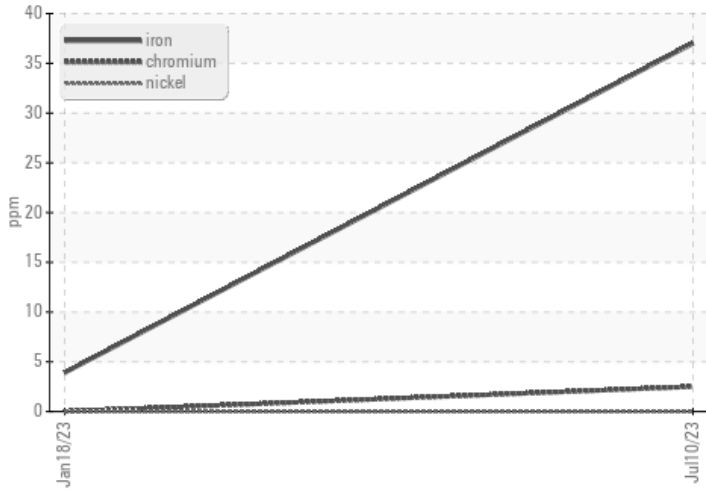


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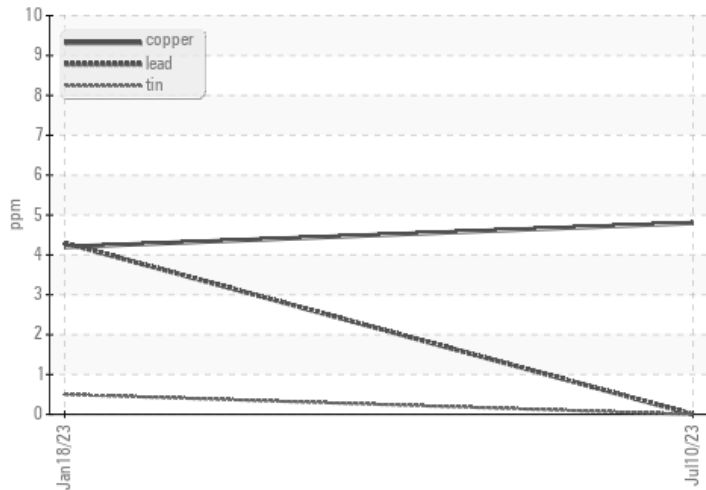


## GRAPHS

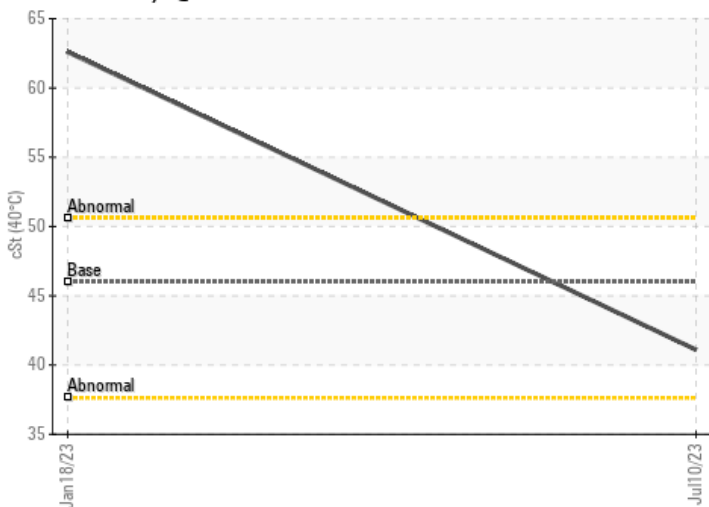
### ▲ Ferrous Alloys



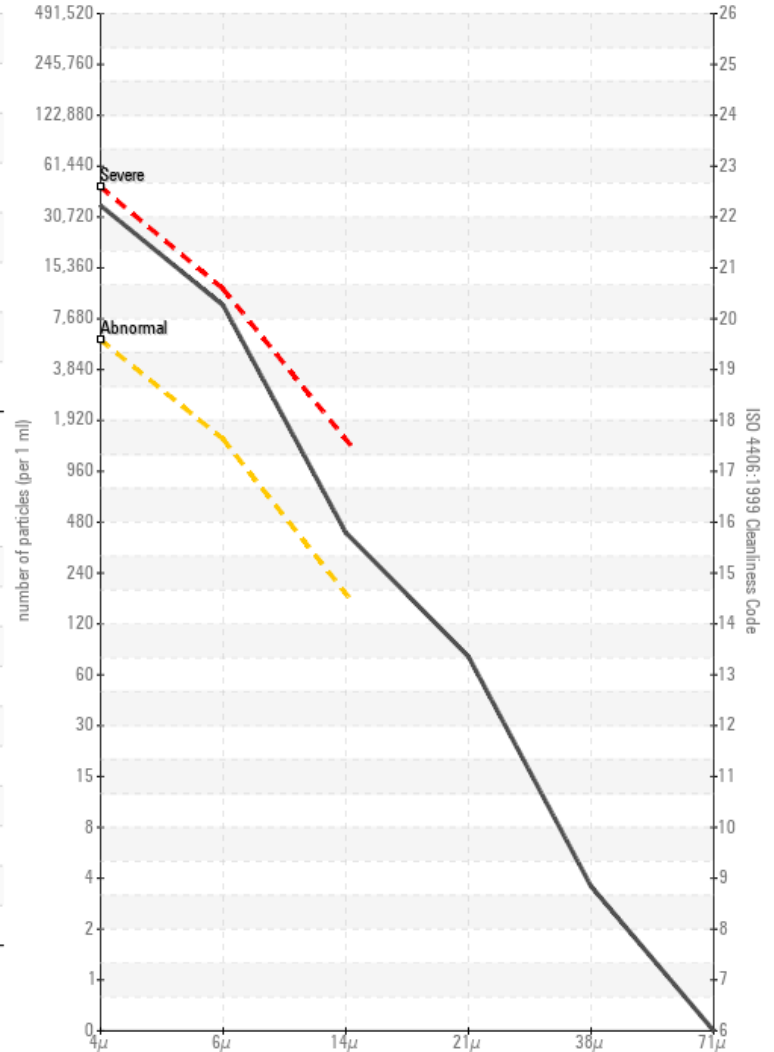
### Non-ferrous Metals



### Viscosity @ 40°C



### ▲ Particle Count



### Acid Number

