



CONSTRUCTION EQUIPMENT

595821 DIPRO CATERPILLAR 972M HLSJ02687 - HYDRAULIC SYSTEM



Sample No: VCP431159
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 595821 DIPRO



SAMPLE INFORMATION

Sample Number	VCP431159	VCP414165	VCP382967	---
Sample Date	25 Sep 2023	10 Jul 2023	18 Jan 2023	---
Machine Hours	15087	14435	12151	---
Oil Hours	1000	1000	4000	---
Oil Changed	Not Chngd	Not Chngd	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
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OIL CONDITION

Visc @ 40°C	cSt	41.5	41.1	62.6	---
Acid Number (AN)	mg KOH/g	0.76	0.76	1.59	---



CONTAMINATION

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

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is abnormal. All other component wear rates are normal. Moderate concentration of visible dirt/debris 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	31	37	4	---
Copper	ppm	5	5	4	---
Lead	ppm	<1	0	4	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	0	0	1	---
Chromium	ppm	2	2	0	---
Molybdenum	ppm	<1	<1	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

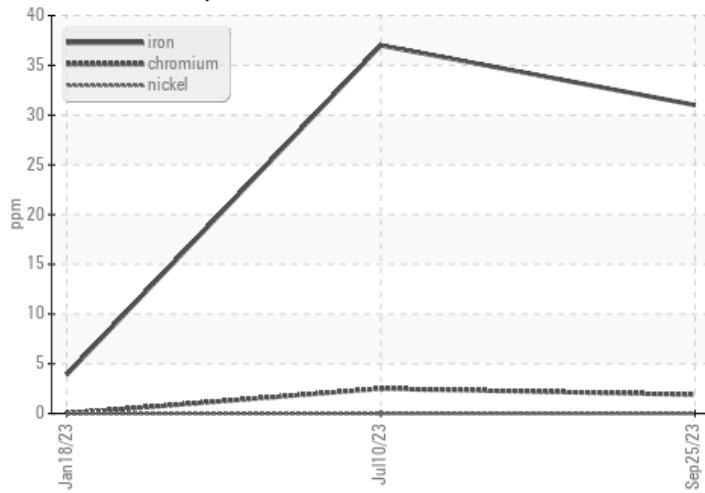
Calcium	ppm	83	110	128	---
Magnesium	ppm	3	4	6	---
Zinc	ppm	682	729	617	---
Phosphorus	ppm	509	571	446	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	2	---

Depot: VOLVO2990
Unique No: 10674253
Signed: Don Baldrige
Report Date: 05 Oct 2023

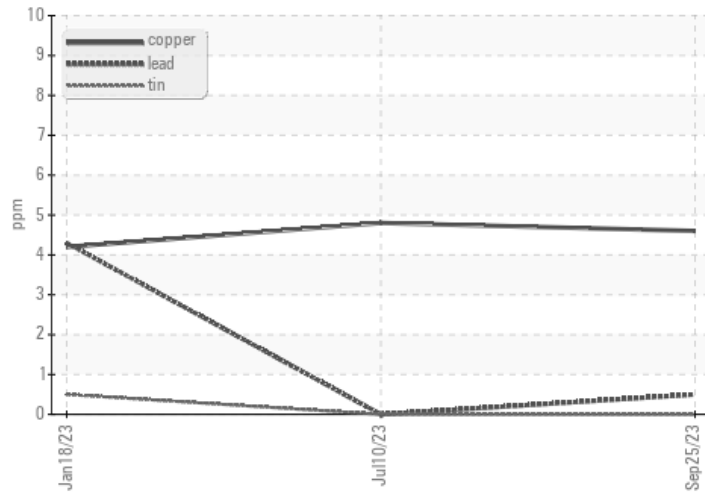


GRAPHS

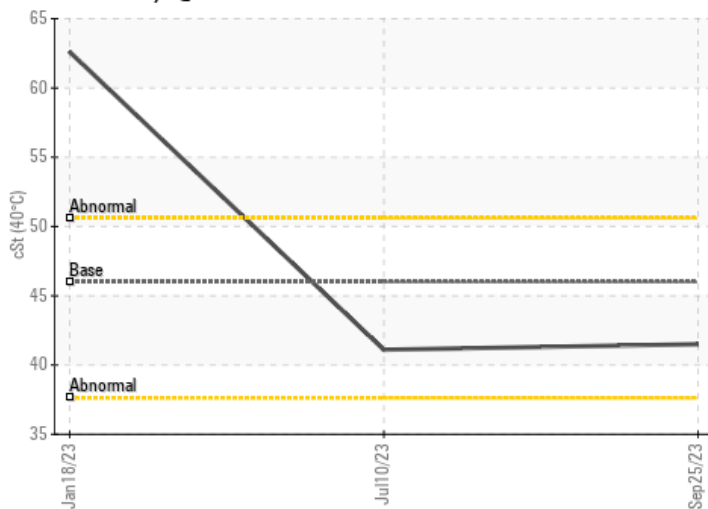
▲ Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

