



CONSTRUCTION EQUIPMENT

700877 DIPRO CATERPILLAR 982M 2686 - HYDRAULIC SYSTEM



Sample No: VCP446955
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 700877 DIPRO



SAMPLE INFORMATION

Sample Number	VCP446955	VCP442420	VCP452302	VCP383064
Sample Date	18 Apr 2024	29 Feb 2024	28 Dec 2023	19 Jan 2023
Machine Hours	14054	16558	12902	10401
Oil Hours	2000	0	4000	2000
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	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	41.2	41.9	48.0	53.0
Acid Number (AN)	mg KOH/g	0.63	0.75	1.34	1.51



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 59472	---	---	---
Particles >6µm		▲ 6323	---	---	---
Particles >14µm		▲ 184	---	---	---
ISO 4406:1999 (c)		23/20/15	---	---	---
Silicon	ppm	2	<1	12	14
Sodium	ppm	3	3	3	4
Potassium	ppm	0	0	1	0

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other 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	▲ 43	▲ 28	6	2
Copper	ppm	4	6	9	3
Lead	ppm	0	0	2	3
Tin	ppm	0	0	<1	<1
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	3	1	1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	118	68	160	144
Magnesium	ppm	0	0	6	2
Zinc	ppm	630	547	790	686
Phosphorus	ppm	473	419	542	496
Barium	ppm	0	0	0	0
Boron	ppm	0	0	<1	0

Depot: VOLVO2990
Unique No: 10996799
Signed: Don Baldrige
Report Date: 30 Apr 2024

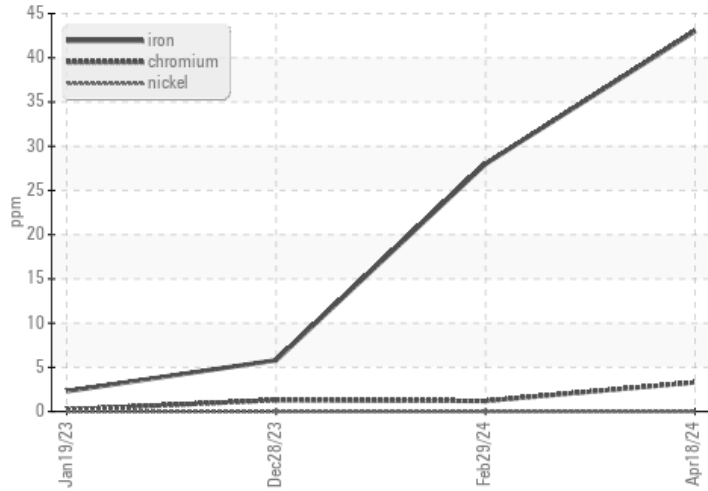


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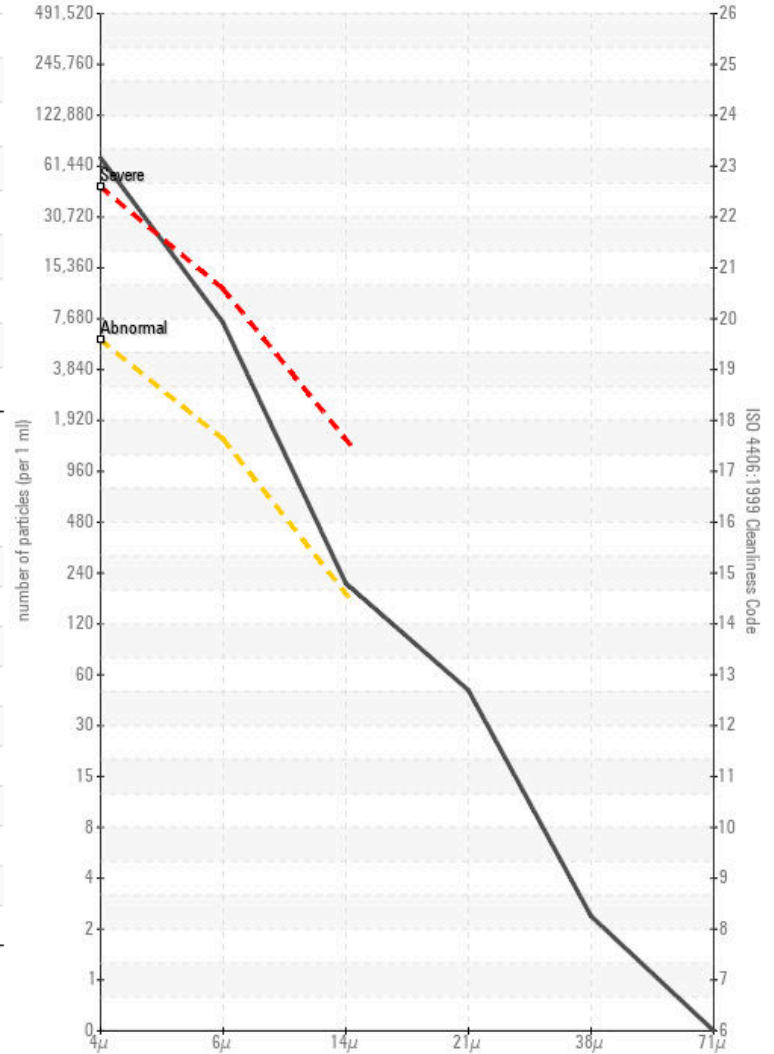


VOLVO GRAPHS

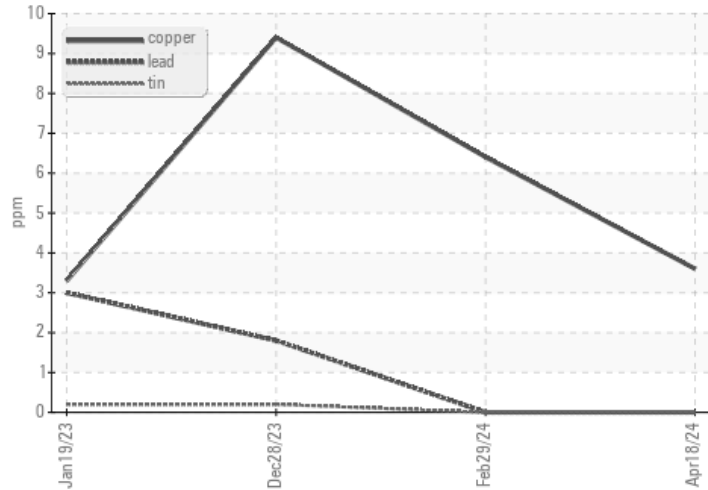
▲ Ferrous Alloys



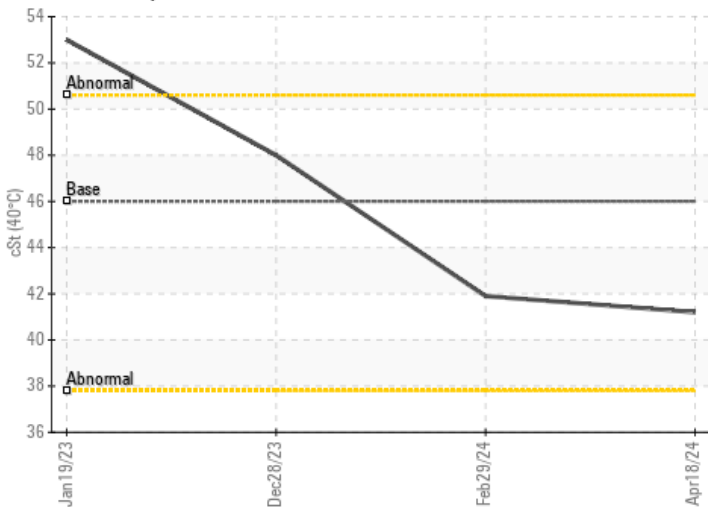
▲ Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

