



CONSTRUCTION EQUIPMENT

SWA390774 WASTE MGMT CATERPILLAR 972H A7D00854 - FRONT AXLE



Sample No: VCP395542
Oil Type: TDTO FLUID SAE 30
Job No: SWA390774 WASTE MGMT



SAMPLE INFORMATION

Sample Number	VCP395542	VCP404842	VCP369255	VCP387549
Sample Date	18 Oct 2023	10 Apr 2023	16 Feb 2023	31 Aug 2022
Machine Hours	25364	25228	24573	23796
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	SEVERE	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	181	185	116	118
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CONTAMINATION

Water	%	▲ 0.360	---	▲ 0.455	---
Silicon	ppm	▲ 153	▲ 194	◆ 475	▲ 185
Sodium	ppm	■ 50	■ 58	■ 150	■ 66
Potassium	ppm	■ 2	■ 4	■ 11	■ <1

Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	■ 288	■ 342	◆ 1601	■ 472
Copper	ppm	■ 10	■ 10	■ 27	■ 17
Lead	ppm	■ 0	■ 0	■ <1	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	▲ 7	▲ 11	▲ 29	▲ 13
Chromium	ppm	■ 0	■ <1	■ 3	■ <1
Molybdenum	ppm	■ 7	■ 11	■ 20	■ 6
Nickel	ppm	■ 0	■ <1	■ 2	0
Titanium	ppm	0	<1	2	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	■ 1	■ 3	■ 13	■ 4
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	■ 1843	■ 2960	■ 483	▲ 262
Magnesium	ppm	■ 43	■ 65	■ 25	■ 14
Zinc	ppm	■ 969	■ 1119	■ 117	▲ 72
Phosphorus	ppm	■ 837	■ 924	■ 289	▲ 246
Barium	ppm	■ 0	■ 0	■ 1	■ 0
Boron	ppm	■ 6	■ 4	■ 8	■ 0

Depot: VOLVO8885
Unique No: 10738448
Signed: Sean Felton
Report Date: 14 Nov 2023



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GRAPHS

