



CONSTRUCTION EQUIPMENT

CATERPILLAR M-2 - TRANSMISSION (MANUAL)



Sample No: VCP442920
Oil Type: SHELL SPIRAX S6 CXME 10W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP442920	VCP416557	VCP390145	VCP340098
Sample Date	21 Nov 2023	25 Oct 2023	07 Mar 2023	05 Jan 2023
Machine Hours	5984	5892	5507	5274
Oil Hours	1991	1899	500	250
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	26.2	28.3	26.7	27.2
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CONTAMINATION

Water	%	NEG	▲ 0.150	NEG	NEG
Silicon	ppm	3	24	3	4
Sodium	ppm	4	2	2	3
Potassium	ppm	0	0	0	<1

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Clutch and/or bushing/bearing wear is indicated. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	34	37	29	18
Copper	ppm	▲ 361	354	310	299
Lead	ppm	17	20	19	19
Tin	ppm	6	6	5	6
Aluminum	ppm	<1	1	<1	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	2	2	2	2
Nickel	ppm	0	<1	0	5
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2471	2652	2571	2708
Magnesium	ppm	26	25	31	29
Zinc	ppm	994	1124	1013	1096
Phosphorus	ppm	889	802	803	873
Barium	ppm	0	0	0	0
Boron	ppm	3	4	5	4

Depot: MARDIC
Unique No: 10763028
Signed: Don Baldrige
Report Date: 30 Nov 2023



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VOLVO GRAPHS

