

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1203-77107 - Transmission (Manual)

Sample No: LH0272549

Oil Type: CHEVRON DELO LE 5W40



SAMPLE INFORMATION

Sample Number	LH0272549	LH0254746	LH0243168	LH0229282
Sample Date	28 Nov 2023	16 Jun 2023	22 Dec 2022	31 May 2022
Machine Hours	20037	18994	17940	16365
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

AMERICAN STATE EQUIPMENT CO.
 2400 NORTH 14TH AVENUE
 WAUSAU, WI
 US 54401
 Contact: CHRIS BARTNIK
 cbartnik@amstate.com
 T: (715)675-6900
 F: (715)675-9748



OIL CONDITION

Visc @ 40°C	cSt	44.5	45.3	43.1	43.6



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	6	9	7
Sodium	ppm	1	2	<1	3
Potassium	ppm	<1	2	4	3

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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	27	29	41	28
Copper	ppm	7	8	15	15
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	1	3	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	17	30	6	3
Nickel	ppm	0	0	0	0
Titanium	ppm	62	44	90	73
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	1	2	1
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

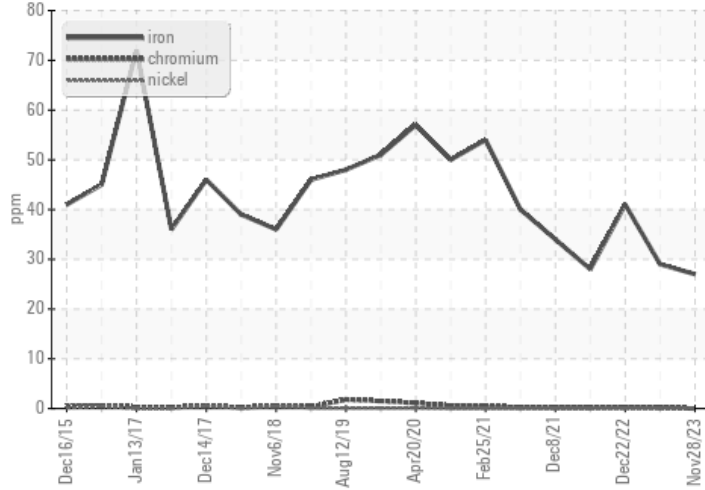
Calcium	ppm	1293	1229	1412	1349
Magnesium	ppm	755	809	624	656
Zinc	ppm	1151	1213	1134	1068
Phosphorus	ppm	1053	1027	1032	969
Barium	ppm	0	0	<1	0
Boron	ppm	117	88	167	164

Depot: LEC0008
 Unique No: 10782751
 Signed: Don Baldrige
 Report Date: 15 Dec 2023

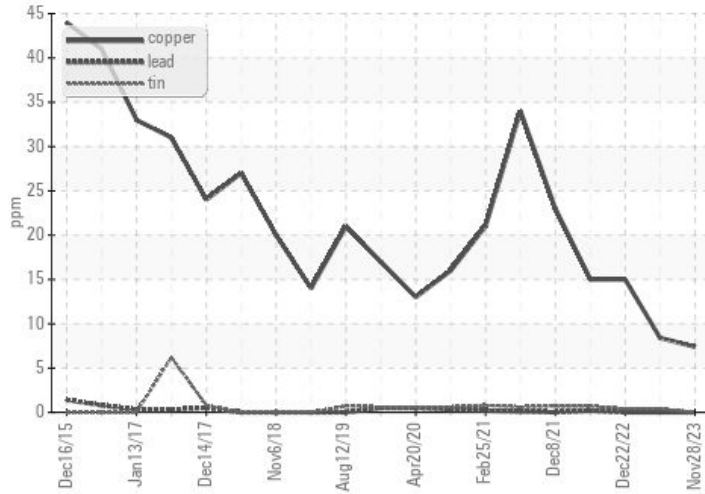


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

