

LIEBHERR

CONSTRUCTION EQUIPMENT



053548-1006 - Transmission

Sample No: LH0277055

Oil Type: PETRO CANADA 15W40



SAMPLE INFORMATION

Sample Number	LH0277055	LH0180115	LH0145391	LH0057664
Sample Date	04 Oct 2023	05 Jan 2022	23 Aug 2019	24 Jul 2012
Machine Hours	0	8682	0	1985
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

American Iron and Metal
 PIER 10, 1 PROTECTION ST
 SAINT JOHN, NB
 CA E2M 5S8
 Contact: Nathan Kavanaugh
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OIL CONDITION

Visc @ 40°C	cSt	66.0	64.8	64.1	48.6
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CONTAMINATION

Silicon	ppm	4	4	4	7
Sodium	ppm	11	14	25	60
Potassium	ppm	<1	2	2	5



WEAR METALS

Iron	ppm	43	60	56	47
Copper	ppm	36	42	68	32
Lead	ppm	2	2	4	3
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	3	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	50	36	16	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	16	20	25	46
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1238	1180	1335	3020
Magnesium	ppm	843	637	348	143
Zinc	ppm	1326	1200	1216	2554
Phosphorus	ppm	1315	1295	1447	2203
Barium	ppm	<1	<1	1	5
Boron	ppm	30	40	73	76

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. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the fluid is acceptable for the time in service.

Depot: AME10STJ
Unique No: 5670791
Signed: Kevin Marson
Report Date: 02 Nov 2023



GRAPHS

