

LIEBHERR

CONSTRUCTION EQUIPMENT



056255-1007 - Transmission

Sample No: LH0270061

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0270061	LH0235493	LH0133033	LH0057813
Sample Date	14 Jul 2023	27 Jun 2022	24 Oct 2018	10 Feb 2012
Machine Hours	16930	0	14295	220
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

American Iron and Metal
 9100 BOUL HENRI-BOURASSA EST
 MONTREAL, QC
 CA H1E 2S4
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OIL CONDITION

Visc @ 40°C	cSt	56.0	41.8	35.9	50.0
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CONTAMINATION

Silicon	ppm	4	5	5	6
Sodium	ppm	21	40	69	51
Potassium	ppm	<1	<1	<1	1



WEAR METALS

Iron	ppm	16	26	39	46
Copper	ppm	10	20	27	45
Lead	ppm	<1	1	1	3
Tin	ppm	0	<1	<1	3
Aluminum	ppm	2	3	5	5
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	60	65	62	0
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	2	4	6	30
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1393	1720	2074	2839
Magnesium	ppm	684	455	15	172
Zinc	ppm	1068	1024	807	1709
Phosphorus	ppm	1005	919	760	1483
Barium	ppm	0	0	<1	3
Boron	ppm	57	110	200	19

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. 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 20 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the fluid is acceptable for the time in service.

Depot: AMEMON
Unique No: 5616523
Signed: Kevin Marson
Report Date: 24 Jul 2023



GRAPHS

