

LIEBHERR

CONSTRUCTION EQUIPMENT



113718-1216 - Transmission (Manual)

Sample No: LH0279291

Oil Type: PETRO CANADA DURON SAE 10W30



SAMPLE INFORMATION

Sample Number	LH0279291	LH0234886	LH0203481	LH
Sample Date	16 Jan 2024	22 Jul 2022	18 Aug 2021	06 Apr 2021
Machine Hours	5998	4000	0	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

American Iron and Metal

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OIL CONDITION

Visc @ 40°C	cSt	60.6	61.7	66.0	54.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	3	3	3
Sodium	ppm	4	6	9	17
Potassium	ppm	2	1	<1	1



WEAR METALS

Iron	ppm	8	6	5	8
Copper	ppm	12	13	14	22
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	58	55	50	41
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	4	5	4	7
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1183	1254	1284	1616
Magnesium	ppm	956	928	866	730
Zinc	ppm	1196	1224	1183	1232
Phosphorus	ppm	1098	1079	1077	1051
Barium	ppm	0	0	<1	<1
Boron	ppm	4	7	10	19

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 20 range, advise investigate. The condition of the fluid is acceptable for the time in service.

Depot: BAKOTT
Unique No: 5710850
Signed: Kevin Marson
Report Date: 18 Jan 2024



GRAPHS

