

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L538 022866-433 - Transmission (Auto)

Sample No: LH0224046

Oil Type: PETRO CANADA SYNTHETIC BLEND ATF



#### SAMPLE INFORMATION

Sample Number	LH0224046	LH0249950	LH0224014	LH0186057
Sample Date	06 Dec 2023	27 Nov 2023	24 Mar 2023	09 Feb 2021
Machine Hours	20000	20000	19029	16017
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

RMR Regie des Materiels Residuelles du LSJ  
1855 rue Castonguay  
Robertval, QC  
CA G8H 2M9  
Contact: Jean-Sebastien Nadeau  
jean-sebastien.nadeau@rmrlac.qc.ca  
T: (418)669-0513  
F: (418)212-8010



#### OIL CONDITION

Visc @ 40°C	cSt	32.8	26.9	21.7	26.8
		●	●	●	●



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 4	● 11	● 10	● 6
Sodium	ppm	● 1	● 2	● 2	● <1
Potassium	ppm	● <1	● <1	● 3	● <1



#### WEAR METALS

PQ		---	● 4	---	---
Iron	ppm	● 55	● 257	● 143	● 141
Copper	ppm	● 10	● 43	● 82	● 104
Lead	ppm	● <1	● 1	● 3	● 3
Tin	ppm	● <1	● 2	● 6	● 6
Aluminum	ppm	● 1	● 3	● 2	● 2
Chromium	ppm	● <1	● 3	● 2	● 2
Molybdenum	ppm	● 0	● 0	● 1	● <1
Nickel	ppm	● <1	● <1	● <1	● <1
Titanium	ppm	● 0	● 0	● 2	● 2
Silver	ppm	● <1	● <1	● <1	● <1
Manganese	ppm	● 0	● 2	● 2	● 1
Vanadium	ppm	● 0	● 0	● <1	● 0



#### ADDITIVES

Calcium	ppm	● 41	● 45	● 53	● 53
Magnesium	ppm	● 2	● <1	● 1	● <1
Zinc	ppm	● 9	● 24	● 42	● 20
Phosphorus	ppm	● 204	● 203	● 286	● 206
Barium	ppm	● <1	● 0	● 0	● 0
Boron	ppm	● 97	● 98	● 116	● 116

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans le fluide. Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. L'état de le fluide est acceptable pour la durée de service.

Depot: RMRROB  
Unique No: 5695417  
Signed: Wes Davis  
Report Date: 11 Dec 2023



### GRAPHS

