

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 084148-1203 - Swing Drive

Sample No: LH

Oil Type: GEAR OIL SAE 80W90



**QIT - Rio Tinto Fer et Titane Inc.**  
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 CA J3R 1M6  
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#### SAMPLE INFORMATION

Sample Number	LH	LH0260779	LH0203399	LH0186657
Sample Date	19 Dec 2023	09 Jun 2023	18 Aug 2021	14 Jan 2021
Machine Hours	10974	0	0	4031
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	181	168	181	183



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	<1	<1	1
Sodium	ppm	2	1	2	3
Potassium	ppm	3	<1	<1	0



#### WEAR METALS

Iron	ppm	172	23	12	21
Copper	ppm	19	21	19	3
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	2	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	17	15	146	6
Magnesium	ppm	5	<1	3	2
Zinc	ppm	36	12	67	5
Phosphorus	ppm	2149	2293	2315	2241
Barium	ppm	0	0	<1	<1
Boron	ppm	18	35	4	21

#### Diagnosis

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 l'huile. L'état de l'huile est acceptable pour la durée de service.

Depot: QITGARAGE  
 Unique No: 5698525  
 Signed: Wes Davis  
 Report Date: 28 Dec 2023



### GRAPHS

