

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R974CEW 044496-1084 - Diesel Engine

Sample No: LH0260777

Oil Type: DIESEL ENGINE OIL SAE 15W40



#### SAMPLE INFORMATION

Sample Number	LH0260777	LH0136032	LH	LH
Sample Date	25 May 2023	17 Aug 2022	28 May 2021	28 May 2021
Machine Hours	11735	11198	0	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**QIT - Rio Tinto Fer et Titane Inc.**

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#### OIL CONDITION

Visc @ 100°C	cSt	12.5	16.5	15.3	14.6
Oxidation (PA)	%	64	90	98	84



#### CONTAMINATION

Soot %	%	2.5	2.9	0	0
Nitration (PA)	%	73	113	95	92
Sulfation (PA)	%	66	88	70	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	5
Sodium	ppm	4	3	2	10
Potassium	ppm	<1	2	<1	3



#### WEAR METALS

Iron	ppm	22	44	10	9
Copper	ppm	1	5	2	1
Lead	ppm	0	2	4	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	3	2	3
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	58	6	28	5
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1009	2657	2151	2544
Magnesium	ppm	1004	52	427	30
Zinc	ppm	1172	1259	1354	1313
Phosphorus	ppm	1072	1033	1178	1056
Barium	ppm	0	0	0	<1
Boron	ppm	34	5	4	5

#### 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: 5591568

Signed: Wes Davis

Report Date: 07 Jun 2023



### GRAPHS

