

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(345483)] LIEBHERR L586 062221-1761 - Diesel Engine

Sample No: LH0260696

Oil Type: PETRO CANADA 10W40



#### SAMPLE INFORMATION

Sample Number	LH0260696	LH0261150	LH0235154	LH0235065
Sample Date	09 Sep 2023	29 Jun 2023	09 Jan 2023	24 Oct 2022
Machine Hours	6097	5395	4655	4212
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**BETON PROVINCIAL LTEE.**  
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#### OIL CONDITION

Visc @ 100°C	cSt	13.7	12.1	14.3	13.8
Oxidation (PA)	%	63	76	59	61



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	65	80	55	57
Sulfation (PA)	%	53	57	55	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	5	5
Sodium	ppm	2	4	1	1
Potassium	ppm	<1	<1	<1	<1

#### 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.



#### WEAR METALS

Iron	ppm	4	6	3	3
Copper	ppm	1	2	<1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	1	<1	2
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	64	58	58	56
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1071	863	1117	1147
Magnesium	ppm	988	1122	959	940
Zinc	ppm	1199	1214	1197	1177
Phosphorus	ppm	1006	1086	1094	1054
Barium	ppm	<1	0	0	0
Boron	ppm	15	24	<1	2

**Depot:** BETMAT  
**Unique No:** 5668031  
**Signed:** Kevin Marson  
**Report Date:** 23 Oct 2023



### GRAPHS

