

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A944 043697 - Diesel Engine

Sample No: LH0277794

Oil Type: PETRO CANADA 10W30



**WOSNUK**  
1050 MAIN ST. EAST  
CAMBRIDGE, ON  
CA N1R 7G8  
Contact: SERVICE



#### INFORMATION SUR L'ÉCHANTILLON

Numéro d'échant.	LH0277794	LH0093330	LH0081972	LH0071603
Date d'échant.	20 Nov 2023	04 Sep 2015	16 Jun 2014	17 Apr 2013
Heures de la Machine	22174	10007	8032	6039
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	NORMAL	ABNORMAL	NORMAL	NORMAL



#### ÉTAT D'HUILE

Visc 100°C	cSt	13.9	12.5	12.1	12.6
Oxydation (PA)	%	51	57	61	63

T:  
F:



#### CONTAMINATION

Eau	%	NEG	NEG	NEG	NEG
% de suie	%	2.3	3.1	2.4	1.7
Nitration (PA)	%	64	85	84	70
Sulfatation (PA)	%	60	73	71	68
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	0.9	0.0	<1.0	<1.0
Silicium	ppm	6	6	7	3
Sodium	ppm	2	5	5	5
Potassium	ppm	0	<1	<1	<1

#### Diagnostic

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.



#### MÉTAUX D'USURE

Fer	ppm	15	23	28	21
Cuivre	ppm	2	3	15	33
Plomb	ppm	1	3	2	2
Étain	ppm	0	<1	<1	0
Aluminium	ppm	4	2	2	2
Chrome	ppm	<1	<1	<1	<1
Molybdène	ppm	72	48	50	5
Nickel	ppm	0	<1	<1	<1
Titane	ppm	0	<1	<1	0
Argent	ppm	<1	0	0	<1
Manganèse	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIFS

Calcium	ppm	1008	1310	1357	2250
Magnésium	ppm	896	764	781	86
Zinc	ppm	1122	1252	1293	1224
Phosphore	ppm	955	1026	1068	939
Baryum	ppm	<1	<1	<1	<1
Bore	ppm	3	5	6	2

Depot: WOZCAM  
Unique No: 5682916  
Signed: Kevin Marson  
Report Date: 23 Nov 2023



### GRAPHS

