LIEBHERR
CONSTRUCTION EQUIPMENT

[(339785)] LIEBHERR LH40C 127765-1527 - Left Final Drive

Sample No: LH0279031

Oil Type: GEAR OIL SAE 80W90

BENMET STEEL & METAL
3961 ROAD 111
STRATFORD, ON
CA N5A 6S5
Contact: Service Manager

T:
F:

INFORMATION SUR L'éCHANTILLON

Numéro d'échant.		**LH0279031**	LH0234701	LH0227346	LH
Date d'échant.		**05 Nov 2023**	22 Sep 2022	09 Mar 2022	11 Nov 2021
Heures de la Machine		**6621**	4278	3064	2288
Heures de l'huile		**0**	0	0	0
Huile changée		**N/A**	Changed	Changed	Changed
Statut de l'echant.		**ABNORMAL**	ABNORMAL	ABNORMAL	SEVERE

ÉTAT D'HUILE

Visc 40°C	cSt	**89.7**	96.1	100	96.7

CONTAMINATION

Eau	%	**---**	---	---	1.039
Silicium	ppm	**130**	62	81	72
Sodium	ppm	**10**	5	5	4
Potassium	ppm	**9**	5	8	6

MéTAUX D'USURE

PQ		**43**	8	---	135
Fer	ppm	**1329**	774	259	452
Cuivre	ppm	**1**	1	<1	<1
Plomb	ppm	**<1**	1	<1	2
Étain	ppm	**0**	0	0	0
Aluminium	ppm	**32**	15	20	19
Chrome	ppm	**18**	10	4	6
Molybdène	ppm	**<1**	<1	<1	<1
Nickel	ppm	**8**	3	2	3
Titane	ppm	**2**	1	1	1
Argent	ppm	**<1**	0	0	<1
Manganèse	ppm	**11**	8	3	5
Vanadium	ppm	**0**	<1	<1	<1

ADDITIFS

Calcium	ppm	**112**	41	83	96
Magnésium	ppm	**36**	19	23	28
Zinc	ppm	**35**	35	18	23
Phosphore	ppm	**1270**	1311	1309	1272
Baryum	ppm	**<1**	<1	0	2
Bore	ppm	**231**	135	263	110

Diagnostic

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.Chromium and iron ppm levels are abnormal. Aluminum ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within SAE 80 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: BEN396STR
Unique No: 5671414
Signed: Kevin Marson
Report Date: 07 Nov 2023

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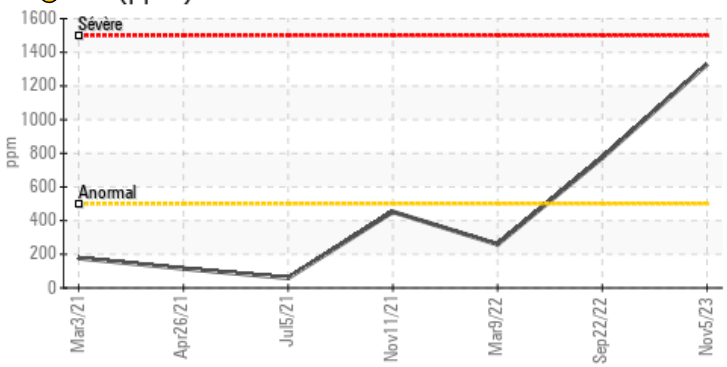
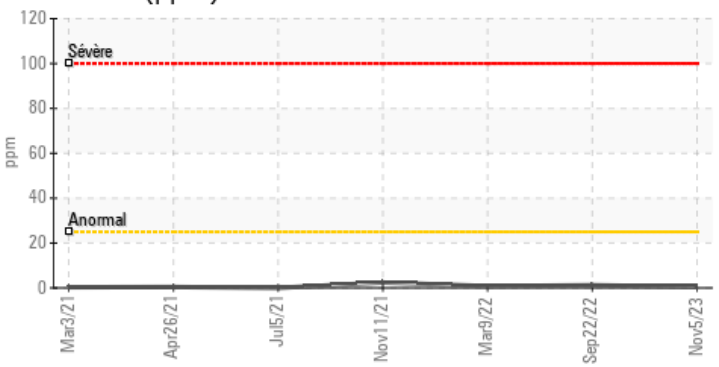
GRAPHS

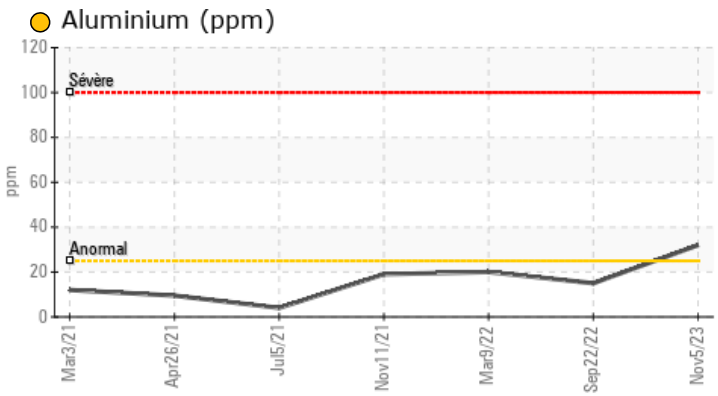
Fer (ppm)



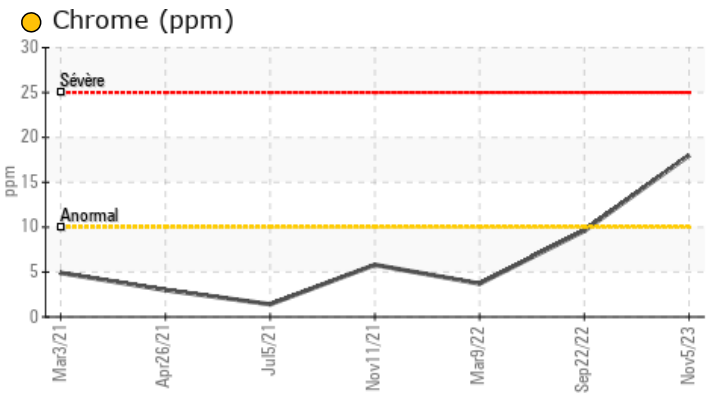
Plomb (ppm)



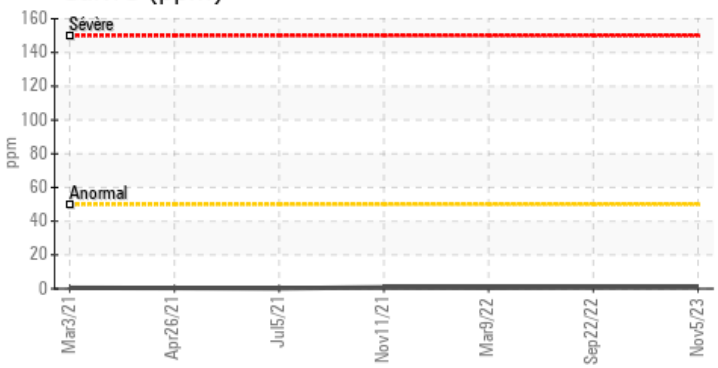
Aluminium (ppm)



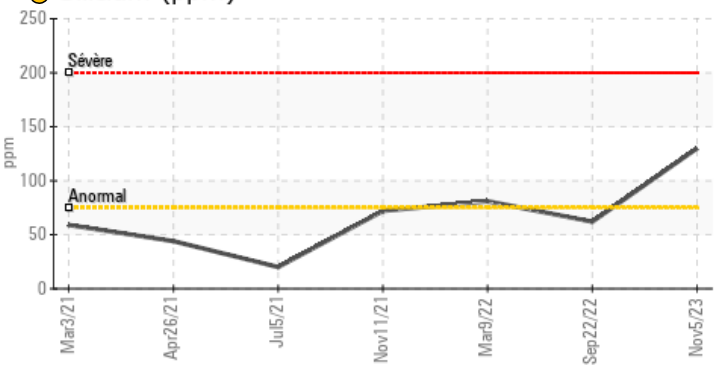
Chrome (ppm)



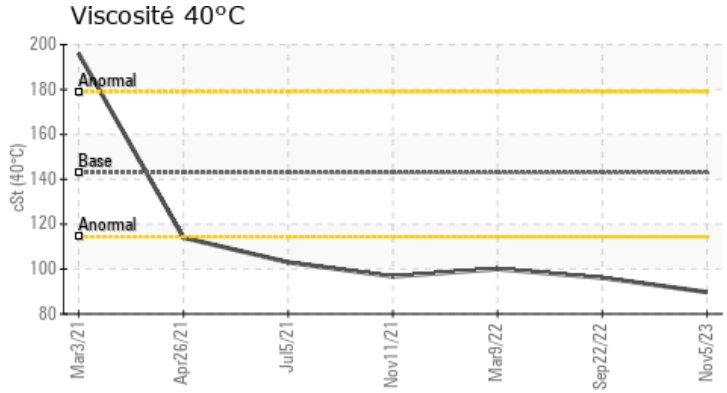
Cuivre (ppm)



Silicium (ppm)



Viscosité 40°C



PQ