

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(336341)] 048022-1476 - Diesel Engine

Sample No: LH0227627

Oil Type: TOTAL RUBIA OPTIMA 1100 FE 10W30



#### Information sur l'échantillon

Numéro d'échant.	LH0227627	LH0251817	LH0215997	LH0182735
Date d'échant.	08 May 2024	09 Mar 2023	21 Apr 2022	05 Nov 2021
Heures de la Machine	4352	2959	2051	1637
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	NORMAL	NORMAL	NORMAL	NORMAL

**American Iron and Metal**  
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#### État d'huile

Visc 100°C	cSt	11.0	11.4	11.2	11.1
Oxydation (PA)	%	59	54	71	34



#### Contamination

Eau	%	NEG	NEG	NEG	NEG
% de suie	%	0	0	0	0
Nitration (PA)	%	71	58	87	40
Sulfatation (PA)	%	52	56	65	42
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	<1.0	<1.0	<1.0	<1.0
Silicium	ppm	5	8	6	8
Sodium	ppm	2	2	2	3
Potassium	ppm	1	<1	4	8

#### Diagnostic

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



#### Métaux d'usure

Fer	ppm	2	1	5	8
Cuivre	ppm	<1	<1	5	10
Plomb	ppm	0	0	<1	1
Étain	ppm	0	0	<1	<1
Aluminium	ppm	2	2	3	6
Chrome	ppm	0	0	<1	<1
Molybdène	ppm	85	77	88	91
Nickel	ppm	0	<1	0	<1
Titane	ppm	0	<1	0	0
Argent	ppm	0	0	<1	<1
Manganèse	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	<1



#### Additifs

Calcium	ppm	2104	1883	2175	2194
Magnésium	ppm	63	239	28	38
Zinc	ppm	1115	1118	1170	1210
Phosphore	ppm	986	1061	1050	1057
Baryum	ppm	0	0	<1	1
Bore	ppm	50	51	39	22

Depot: AMEHAM  
 Unique No: 5775428  
 Signed: Wes Davis  
 Report Date: 09 May 2024



### Graphs

