

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L546 052862-1560 - Diesel Engine

Sample No: LH0260772

Oil Type: LIEBHERR MOTOROIL 5W30



SAMPLE INFORMATION

Sample Number	LH0260772	LH0227040	LH0184142	LH0194250
Sample Date	01 Sep 2023	08 May 2022	30 Sep 2021	16 Mar 2021
Machine Hours	2484	1450	500	0
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

LIEBHERR CANADA LTEE
 4250 AUTOROUTE CHOMEDEY 13
 LAVAL, QC
 CA H7R 6E9
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OIL CONDITION

Visc @ 100°C	cSt	13.8	11.5	14.1	10.2
Oxidation (PA)	%	57	73	57	72



CONTAMINATION

Water	%	---	---	---	0.094
Soot %	%	0	0	0	0
Nitration (PA)	%	51	75	48	72
Sulfation (PA)	%	54	60	53	63
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	1.4
Silicon	ppm	3	3	4	11
Sodium	ppm	2	4	2	7
Potassium	ppm	2	1	2	4

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	5	8	7	28
Copper	ppm	2	6	19	182
Lead	ppm	<1	<1	1	10
Tin	ppm	0	<1	<1	1
Aluminum	ppm	<1	1	2	11
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	55	58	67	230
Nickel	ppm	0	<1	0	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	3
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1062	811	1082	1302
Magnesium	ppm	932	1152	932	821
Zinc	ppm	1162	1226	1164	1081
Phosphorus	ppm	1044	1072	1035	866
Barium	ppm	0	0	0	1
Boron	ppm	5	50	24	188

Depot: LIESTL
 Unique No: 5633707
 Signed: Wes Davis
 Report Date: 06 Sep 2023



GRAPHS

