

LIEBHERR

CONSTRUCTION EQUIPMENT



[[605863]] LIEBHERR L526 051780-1558 - Diesel Engine

Sample No: LH0286975

Oil Type: DIESEL ENGINE OIL SAE 30



Sample Information

Sample Number	LH0286975	LH0274538	LH	LH
Sample Date	08 Apr 2024	29 Aug 2023	07 Feb 2022	25 Mar 2021
Machine Hours	0	3031	1837	1252
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

GREEN METALS CANADA

224 BEARDS LANE
WOODSTOCK, ON
CA N4S 7W3

Contact: Jamie Depotie
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Oil Condition

Visc @ 100°C	cSt	12.0	12.3	12.1	12.1
Oxidation (PA)	%	65	70	27	67



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.4	0	0.2
Nitration (PA)	%	84	89	37	86
Sulfation (PA)	%	52	60	37	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	2.5
Silicon	ppm	1	4	3	3
Sodium	ppm	2	3	2	3
Potassium	ppm	<1	1	<1	<1

Diagnosis

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.



Wear Metals

Iron	ppm	20	24	18	18
Copper	ppm	3	9	9	19
Lead	ppm	<1	2	1	2
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	4	3	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	58	59	57	60
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1027	1090	1063	1014
Magnesium	ppm	929	915	948	977
Zinc	ppm	1140	1154	1194	1244
Phosphorus	ppm	961	931	973	988
Barium	ppm	0	0	0	<1
Boron	ppm	4	5	3	7

Depot: GRE224WOO
Unique No: 5760739
Signed: Wes Davis
Report Date: 09 Apr 2024



Graphs

