

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(353412)] LIEBHERR R926 052980-1827 - Diesel Engine

Sample No: LH0289395

Oil Type: PETRO CANADA 10W40



**SL EXCAVATION INC.**  
 4626 COUNTY ROAD 29  
 ALMONTE, ON  
 CA K0A 1A0  
 Contact: Service Manager



#### Sample Information

Sample Number	LH0289395	LH0281587	LH0274648	LH0247511
Sample Date	18 Jun 2024	15 Dec 2023	20 Sep 2023	08 Jun 2023
Machine Hours	4979	4507	4068	3482
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 100°C	cSt	12.2	14.1	13.6	12.5
Oxidation (PA)	%	87	71	69	58

T:  
F:



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	86	68	70	63
Sulfation (PA)	%	62	57	57	53
Glycol	%	NEG	NEG	0.0	NEG
Fuel	%	0.0	<1.0	<1.0	<1.0
Silicon	ppm	10	20	5	5
Sodium	ppm	5	2	2	1
Potassium	ppm	<1	<1	24	<1

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.



#### Wear Metals

Iron	ppm	15	11	16	2
Copper	ppm	<1	2	2	1
Lead	ppm	<1	<1	1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	1	2	1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	63	61	64	58
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	1	<1
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	933	1136	1126	1026
Magnesium	ppm	1207	1023	1043	987
Zinc	ppm	1314	1254	1293	1202
Phosphorus	ppm	1052	1048	1057	1067
Barium	ppm	0	0	<1	0
Boron	ppm	35	1	<1	<1

Depot: SLEALM  
 Unique No: 5800641  
 Signed: Kevin Marson  
 Report Date: 21 Jun 2024



### Graphs

