LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR L580 066027-1760 - Diesel Engine

Sample No: LH0225596

Silver

Manganese

Vanadium

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

Oil Type: 49 NORTH ADV HD CK-4 10W30

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U SAM	PLE INFO	ORMATION			
Sample Number		LH0225596	LH0225585	LH0225593	
Sample Date		17 Mar 2023	09 Jan 2023	04 Jan 2023	
Machine Hours		1969	962	1563	
Oil Hours		0	0	0	
Oil Changed		Changed	Changed	Not Changd	
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	
OIL	ONDITIO	ON			
Visc @ 100°C	cSt	10.7	11.4	0 10.8	
Oxidation (PA)	%	69	80	65	
**					
CON	TAMINA	ATION			
Soot %	%	0 0	0 0	0 0	
Nitration (PA)	%	66	55	53	
Sulfation (PA)	%	57	64	57	
Glycol	%	NEG	NEG	NEG	
Fuel	%	2.3	O 1.5	2	
Silicon	ppm	4	6	4	
Sodium	ppm	2	O 1	O 1	
Potassium	ppm	() <1	O 0	0	
(Ö)					
WEA	R META	LS			
Iron	ppm	8	4	5	
Copper	ppm	<u> </u>	6	3	
Lead	ppm	o 5	O <1	O 1	
Tin	ppm	0 <1	O <1	O <1	
Aluminum	ppm	0 <1	1	O 1	
Chromium	ppm	0 <1	0	O 0	
Molybdenum	ppm	o 56	5 4	O 55	
Nickel	ppm	0 0	O <1	O 0	
Titanium	ppm	0	<1	<1	

0

<1

1148

935

1142

0 1063

02

<1

0 1082

918

1165

0 1074

<1</p>



GENERAL RECYCLING INDUSTRIES LTD.

4120 - 84 AVENUE EDMONTON, AB CA T6B 3H3 Contact: Corey MacKay cmackay@trailco.ca T: (587)926-1610

Diagnosis

F: (780)485-4294

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Copper ppm levels are noted. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Depot:GEN156EDMUnique No:5629767Signed:Kevin MarsonReport Date:21 Aug 2023

<1</p>

<1

1048

950

1185

1058

1

3

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ADDITIVES





GRAPHS

