WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



(353691)
Machine Id
LIEBHERR R945 052997-1866

Component Diesel Engine

SAE 5W30 (--- GAL)

DECOMMENDATION	T1	LIONA	NA-th	Linch/Alon		118-1	LE-t0
RECOMMENDATION Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LH0284412		
	Sample Date		Client Info		14 Feb 2024		
	Machine Age	hrs	Client Info		1167		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>100	6		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	<1		
	Nickel	ppm	ASTM D5185(m)	>5	<1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>3	0		
	Aluminum	ppm	ASTM D5185(m)	>15	2		
	Lead	ppm	ASTM D5185(m)	>30	1		
	Copper	ppm	ASTM D5185(m)	>125	25		
	Tin	ppm	ASTM D5185(m)	>5	<1		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION There is no indication of any contamination in the oil.	0.11.		AOTM DE405()		_		
	Silicon Potassium	ppm	ASTM D5185(m)		7		
	Fuel	ppm	ASTM D5185(m) WC Method		4 <1.0		
	Water		WC Method		<1.0 NEG		
	Glycol		WC Method	>0.2	NEG		
	Soot %	%	ASTM D7844*	- 2	0		
	Nitration	Abs/cm	ASTM D7644*	>20	8.2		
	Sulfation	Abs/.1mm	ASTM D7415*		23.1		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water		Visual*	>0.2	NEG		
	• "				the second second		

Sodium

Boron

Barium

Molybdenum

Manganese

Magnesium

Phosphorus

Calcium

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

ppm

ASTM D5185(m)

ASTM D7279(m) 11.0

Abs/.1mm ASTM D7414* >25

2

3

6

0

178

1900

877

1032

2733

20.7

14.5

132

Viscosity of sample indicates oil is within SAE 40 range, advise

investigate. The condition of the oil is acceptable for the time in

FLUID CONDITION

service.





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Unique Number : 5733704

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0284412 Lab Number : 02616594

Received **Tested** Diagnosed Test Package : MOB 1 (Additional Tests: Visual)

: 20 Feb 2024 : 20 Feb 2024

: 20 Feb 2024 - Kevin Marson

EXCAVATION RAYMOND BOUCHARD INC. 222 DE L'INDUSTRIE ST-LIN DES LAURENTIDES, QC

CA J5M 0A3 Contact: SERVICE MANAGER

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.