

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id LIEBHERR LH22M 137772-1525

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

WEAR

All component wear rates are normal.

RECOMMENDATION

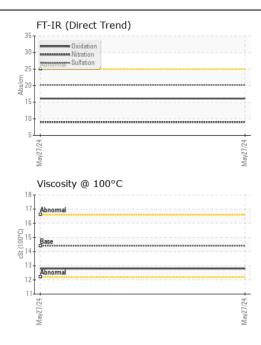
CONTAMINATION

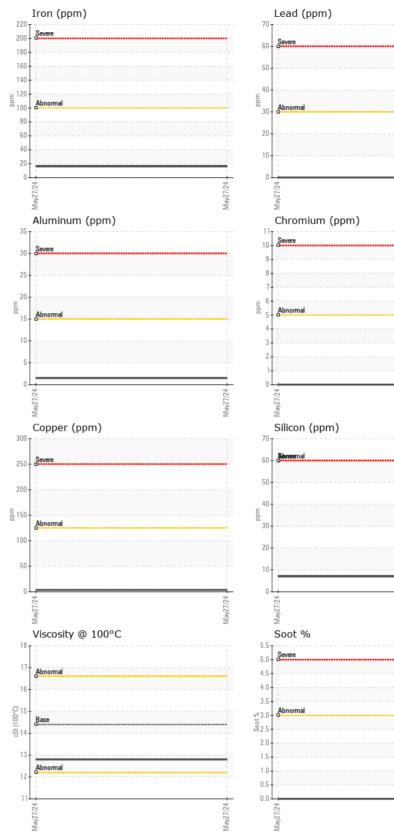
There is no indication of any contamination in the oil.

FLUID CONDITION	
	UINE

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0232644		
Sample Date		Client Info		27 May 2024		
Machine Age	hrs	Client Info		3213		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185(m)	>100	16		
Chromium	ppm	ASTM D5185(m)	>5	0		
Nickel	ppm	ASTM D5185(m)	>5	0		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>15	2		
Lead	ppm	ASTM D5185(m)	>30	0		
Copper	ppm	ASTM D5185(m)	>125	4		
Tin	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>60	7		
Potassium	ppm	ASTM D5185(m)	>20	1		
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	9.0		
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2		
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	scalar	Visual*	>0.2	NEG		
Sodium	ppm	ASTM D5185(m)	>216	3		
Boron	ppm	ASTM D5185(m)	250	77		
Barium	ppm	ASTM D5185(m)	10	0		
Molybdenum	ppm	ASTM D5185(m)	100	36		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	450	791		
Calcium	ppm	ASTM D5185(m)	3000	1380		
Phosphorus	ppm	ASTM D5185(m)	1150	984		
Zinc	ppm	ASTM D5185(m)	1350	1176		
Sulfur	ppm	ASTM D5185(m)	4250	2719		
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1		
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.8		
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6 Excavation Dolbeau Inc. 493 - 2ieme Avenue Dolbeau-Mistassini, QC CA G8L 1V3 Contact: Service Manager



 Accredited Laboratory
 Unique Number
 : 5788516
 Diagnosed
 : 03 Jun 2024 - Wes Davis

 Test Package
 : MOBCE (Additional Tests: Visual)
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 To discuss this sample report, contact Customer Service at 1-800-268-2131.
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: LH0232644

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Received

Tested

: 03 Jun 2024

: 03 Jun 2024

Report Id: EXCDOL [WCAMIS] 02639354 (Generated: 06/03/2024 14:05:05) Rev: 1

CALA

ISO 17025:2017

Laboratory

Sample No.

Lab Number : 02639354

T: F:

Submitted By: ? Page 2 of 2