WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

Δrea

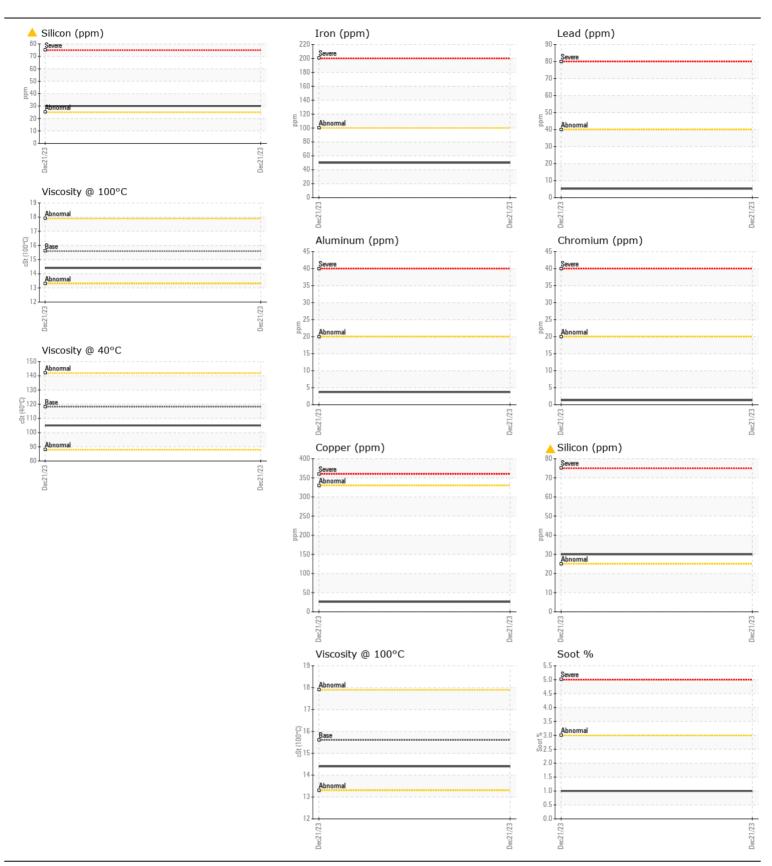
Tractors
Machine Id
UTL004

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.	Sample Number		Client Info		PC0074915		
	Sample Date		Client Info		21 Dec 2023		
	Machine Age	hrs	Client Info		8363		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>100	50		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		1		
	Nickel	ppm	ASTM D5185(m)		- <1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>3	0		
	Aluminum	ppm	ASTM D5185(m)	>20	4		
	Lead	ppm	ASTM D5185(m)	>40	5		
	Copper	ppm	ASTM D5185(m)	>330	26		
	Tin	ppm	ASTM D5185(m)	>15	2		
	Vanadium	ppm	ASTM D5185(m)		0		
CONT A MINI A TION	0		40TM DE (05/)				
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		<u>^</u> 30		
There is a moderate concentration of dirt present in the oil.	Potassium	ppm	ASTM D5185(m)		4		
	Fuel		WC Method		<1.0		
	Water		WC Method WC Method	>0.2	NEG NEG		
	Glycol Soot %	%	ASTM D7844*	. 2	NEG 1		
	Nitration	Abs/cm	ASTM D7644 ASTM D7624*	>20	6.4		
	Sulfation	Abs/.1mm	ASTM D7024 ASTM D7415*		19.7		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		4		
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)		12		
	Barium	ppm	ASTM D5185(m)		<1		
	Molybdenum	ppm	ASTM D5185(m)		52		
	Manganese	ppm	ASTM D5185(m)		14		
	Magnesium	ppm	ASTM D5185(m)		732		
	Calcium	ppm	ASTM D5185(m)		1479		
	Phosphorus	ppm	ASTM D5185(m)		956		
	Zinc	ppm	ASTM D5185(m)		1083		
	Sulfur Oxidation	ppm Abs/.1mm	ASTM D5185(m) ASTM D7414*		2606 13.1		
	Visc @ 40°C		ASTM D7414* ASTM D7279(m)		105		
	Visc @ 40°C Visc @ 100°C	cSt cSt	ASTM D7279(m) ASTM D7279(m)		14.4		
	visc @ 100 C	COL	40 LINI D1512(III)	15.0	14.4		

Viscosity Index (VI) Scale ASTM D2270* 139

140





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: 5709222 **Unique Number**

: PC0074915 : 02608136

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

Recieved Diagnosed

: 11 Jan 2024 : 12 Jan 2024 Diagnostician : Kevin Marson

Test Package : MOB 1 (Additional Tests: KV40, VI)

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.

Lakeshore Gold Timmins West

Timmins, ON CA

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