WEAR CONTAMINATION FLUID CONDITION

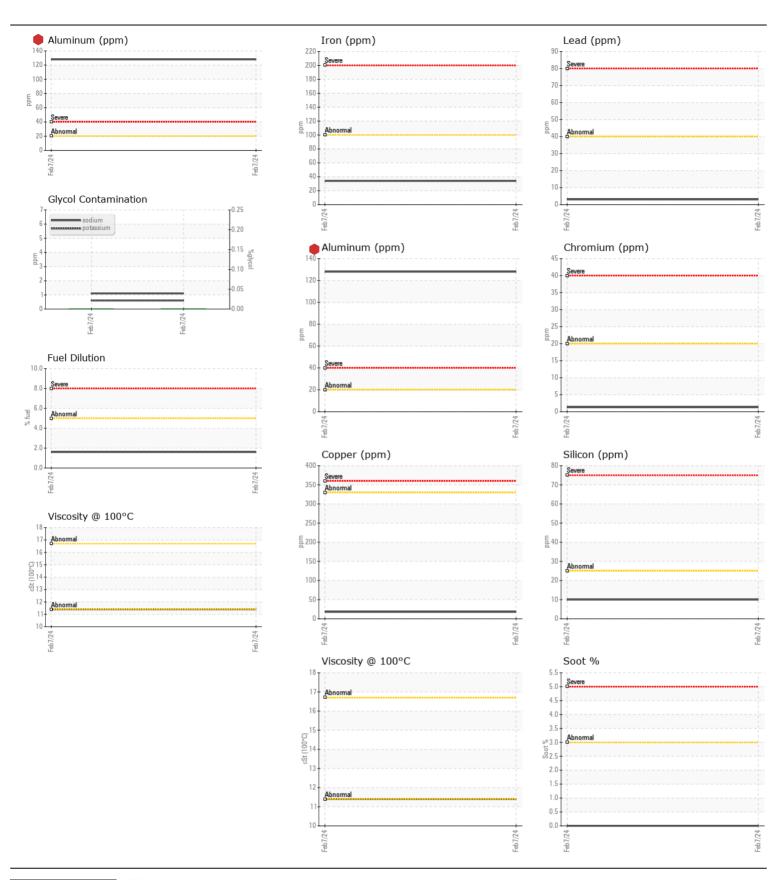
SEVERE NORMAL NORMAL

Machine Id

KOITI CS2220H (S/N XY8600040)

Component Diesel Engine							
KIOTI 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		KT0001019		
	Sample Date		Client Info		07 Feb 2024		
	Machine Age	hrs	Client Info		127		
	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				SEVERE		
WEAR	Iron	ppm	ASTM D5185(m)	>100	34		
	Chromium	ppm	ASTM D5185(m)		1		
Aluminum ppm levels are severe. Light concentration of visible metal present. Piston and/or bearing wear is indicated.	Nickel	ppm	ASTM D5185(m)	>4	0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>3	0		
	Aluminum	ppm	ASTM D5185(m)	>20	128		
	Lead	ppm	ASTM D5185(m)	>40	3		
	Copper	ppm	ASTM D5185(m)	>330	18		
	Tin	ppm	ASTM D5185(m)	>15	23		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	▲ VLITE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Ciliana		ACTM DE10E()	٥٦	40		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	10		
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185(m)		<1		
	Fuel	%	ASTM D7593*	>5	1.6 NEG		
	Water	0/	WC Method	>0.2			
	Glycol	%	ASTM D7922* ASTM D7844*	. 0	0.0 0		
	Soot % Nitration			>20	4.6		
	Sulfation	Abs/cm Abs/.1mm		>30	18.7		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance		Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water			>0.2	NEG		
			VIOGGI				
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		1		
The oil is no longer serviceable as a result of the abnormal and/or	Boron	ppm	ASTM D5185(m)		101		
severe wear.	Barium	ppm	ASTM D5185(m)		3		
	Molybdenum	ppm	ASTM D5185(m)		52		
	Manganese	ppm	ASTM D5185(m)		1		
	Magnesium	ppm	ASTM D5185(m)		408		
	Calcium	ppm	ASTM D5185(m)		1685		
	Phosphorus	ppm	ASTM D5185(m)		995		
	Zinc	ppm	ASTM D5185(m)		1126		
	Sulfur	ppm	ASTM D5185(m)		2952		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	14.0		
	10 0 1000	0.	LOTIL DEGECT				

11.4





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : KT0001019 Lab Number : 02616597

Unique Number : 5733707

Received **Tested**

: 20 Feb 2024 : 27 Feb 2024 Diagnosed

: 27 Feb 2024 - Kevin Marson

ATLANTIC TRAILER & TRACTOR 52A THOMPSON ST CLARENVILLE, NL

CA A5A 0G8 Test Package : MOB 1 (Additional Tests: BottomAnalysis, FILTERPATCH, FUELDILUTION, GLYCOL, PercentFuel, Visuatact: John Wiseman

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

johnwiseman@atlantictrailer.ca T: (709)466-4300

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.

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