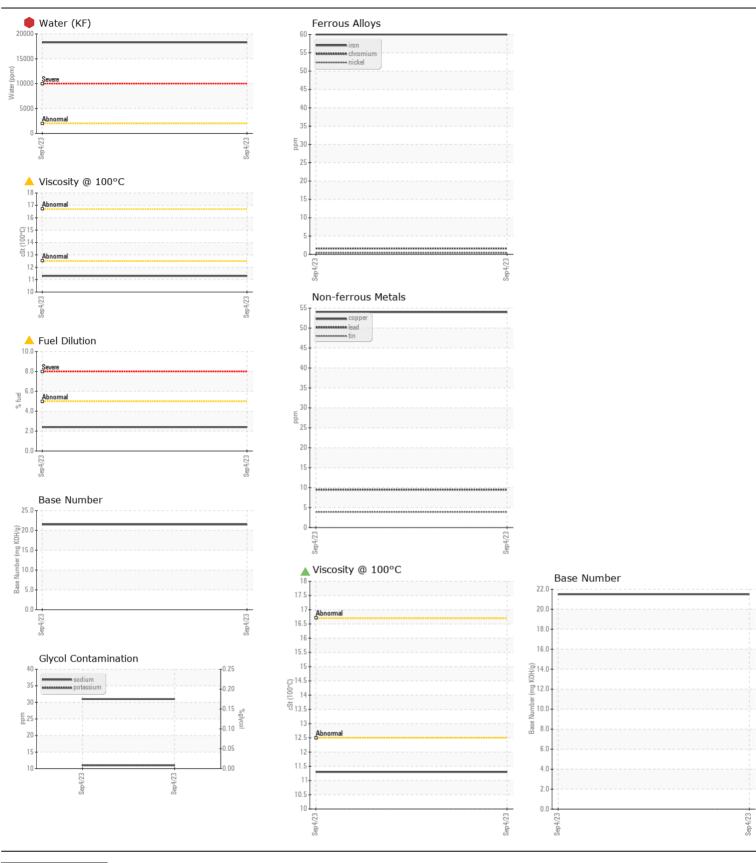
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ATTENTION

KIOTI CK4010 VR000051

Component Diesel Engine

{not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform an accurate viscosity test.	Sample Number	00	Client Info	21111071011	KT0000542		
	Sample Date		Client Info		04 Sep 2023		
	Machine Age	hrs	Client Info		150		
	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 D5185m	>100	60		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	26		
	Lead	ppm	ASTM D5185m		10		
	Copper	ppm	ASTM D5185m	>330	54		
	Tin	ppm	ASTM D5185m	>15	4		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION There is a high concentration of water present in the oil. Light fuel dilution occurring. Moderate concentration of visible dirt/debris present in the oil.	Silicon	ppm	ASTM D5185m	>25	17		
	Potassium	ppm	ASTM D5185m	>20	11		
	Fuel	%	ASTM D3524	>5	2.4		
	Water	%	ASTM D6304	>0.2	1.83		
	ppm Water	ppm	ASTM D6304	>2000	18300		
	Glycol	%	*ASTM D2982		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	10.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	10.7		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	▲ MODER		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
<u></u>	Emulsified Water		*Visual *Visual	NORML >0.2	• 0.2%		
FLUID CONDITION	Emulsified Water Sodium		*Visual ASTM D5185m		• 0.2% 31		
	Emulsified Water Sodium Boron	scalar	*Visual ASTM D5185m ASTM D5185m		0.2% 31 43		
The oil viscosity is lower than normal. The oil is no longer serviceable	Emulsified Water Sodium Boron Barium	scalar ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m ASTM D5185m		● 0.2% 31 43 3		
	Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0.2% 31 43 3 4		
The oil viscosity is lower than normal. The oil is no longer serviceable	Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0.2% 31 43 3 4 3	 	
The oil viscosity is lower than normal. The oil is no longer serviceable	Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0.2% 31 43 3 4 3 765	 	
The oil viscosity is lower than normal. The oil is no longer serviceable	Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm ppm	*Visual ASTM D5185m		0.2% 31 43 3 4 3 765 1238		
The oil viscosity is lower than normal. The oil is no longer serviceable	Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm ppm ppm	*Visual ASTM D5185m		0.2% 31 43 3 4 3 765 1238 927		
The oil viscosity is lower than normal. The oil is no longer serviceable	Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	*Visual ASTM D5185m		0.2% 31 43 3 4 3 765 1238 927 1217		
The oil viscosity is lower than normal. The oil is no longer serviceable	Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	*Visual ASTM D5185m	>0.2	0.2% 31 43 3 4 3 765 1238 927 1217 3468		
The oil viscosity is lower than normal. The oil is no longer serviceable	Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Oxidation	scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	*Visual ASTM D5185m ASTM D7414	>0.2	0.2% 31 43 3 4 3 765 1238 927 1217 3468 13.1		
The oil viscosity is lower than normal. The oil is no longer serviceable	Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	*Visual ASTM D5185m ASTM D7414	>0.2	0.2% 31 43 3 4 3 765 1238 927 1217 3468		





Certificate L2367

Laboratory Sample No. Unique Number : 10701383

Lab Number : 05984088

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KT0000542

Received **Tested** Diagnosed

: 19 Oct 2023 : 24 Oct 2023

: 24 Oct 2023 - Jonathan Hester

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Test Package : CONST (Additional Tests: FuelDilution, Glycol, KF, PercentFuel, TBN)Contact: SERVICE MANAGER lttmllchamilton@gmail.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (406)363-7027 F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)