

Machine Id KIOTI TL750U-LQ PXGNA0052 Component Hydraulic System Fluid STARFIRE AW 46 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a moderate concentration of water present in the oil. Excessive free water present.

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FLUID CONDITION

The AN level is acceptable for this fluid.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KT0000881		
Sample Date		Client Info		09 Feb 2024		
Machine Age	hrs	Client Info		75		
Oil Age	hrs	Client Info		1		
Filter Age	hrs	Client Info		1		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				SEVERE		
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Iron	ppm	ASTM D5185m	>20	<1		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	2		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	1		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silioon	nnm	ACTM DE10Em	. 20	2		
Silicon	ppm	ASTM D5185m	>20	3		
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20 >20	3 <1		
Silicon Potassium Water	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D6304	>20 >20 >0.1	3 <1 ▲ 0.624		
Silicon Potassium Water ppm Water	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>20 >20 >0.1 >1000	3 <1 ▲ 0.624 ▲ 6240	 	
Silicon Potassium Water ppm Water Silt	ppm ppm % ppm scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 *Visual	>20 >20 >0.1 >1000 NONE	3 <1 ▲ 0.624 ▲ 6240 NONE	 	
Silicon Potassium Water ppm Water Silt Debris	ppm ppm % ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual	>20 >20 >0.1 >1000 NONE NONE	3 <1 <0.624 <0.624 <0.6240 NONE NONE	 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt	ppm ppm % ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual	>20 >20 >0.1 >1000 NONE NONE	3 <1 0.624 6240 NONE NONE NONE		
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance	ppm ppm % ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual	>20 >20 >0.1 >1000 NONE NONE NONE	3 <1 0.624 6240 NONE NONE NONE NORML		
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm % ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual	>20 >20 >0.1 >1000 NONE NONE NORML NORML	3 <1 0.624 6240 NONE NONE NONE NORML NORML		
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm % scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 >0.1 >1000 NONE NONE NONE NORML NORML >0.1	3 <1 0.624 6240 NONE NONE NONE NORML NORML 0.2%		
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm % scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >20 >0.1 >1000 NONE NONE NORML NORML >0.1	3 <1 0.624 6240 NONE NONE NORML NORML 0.2%		
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm % scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >20 >0.1 >1000 NONE NONE NORML NORML >0.1	3 <1 0.624 6240 NONE NONE NORML NORML 0.2%		
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm pm % ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >20 >0.1 >1000 NONE NONE NORML NORML >0.1	3 <1 0.624 6240 NONE NONE NORML NORML 0.2% 4 2 2		
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm % scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 >1000 NONE NORME NORML >0.1	3 <1 0.624 6240 NONE NONE NORML 0.2% 4 2 2 2		
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm % scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 >1000 NONE NORME NORML >0.1	3 <1 0.624 6240 NONE NONE NORML 0.2% 4 2 2 2 2 0		
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm pm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 >1000 NONE NONE NORML NORML >0.1	3 <1 0.624 6240 NONE NONE NORML 0.2% 4 2 2 2 2 0 10		
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 >1000 NONE NORME NORML >0.1	3 <1 0.624 6240 NONE NONE NORML 0.2% 4 2 2 2 2 2 0 10 81		
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm pm scalar scalar scalar scalar scalar pcalar ppm ppm ppm ppm ppm ppm ppm pp	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 NONE NONE NORML >0.1	3 <1 0.624 000000000000000000000000000000000000		
Silicon Potassium Water Jpm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus	ppm pm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm pp	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 >1000 NONE NORML >0.1	3 <1 0.624 000000000000000000000000000000000000		
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm % scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 >1000 NONE NORME NORML >0.1	3 <1 0.624 NONE NONE NONE NORML 0.2% 4 2 2 2 2 0 10 81 210 279 1130		
Silicon Potassium Water Jpm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Acid Number (AN)	ppm ppm scalar scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 >1000 NONE NORME NORML >0.1	3 <1 0.624 00000 00000 00000 00000 00000 00000 0000		

Contact/Location: JOHNIE MCQUEEN - KENIND



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **KENTON EQUIPMENT** Sample No. : KT0000881 1995 WALTON NICHOLSON AVE Received : 14 Feb 2024 Lab Number : 06089519 : 16 Feb 2024 INDEPENDENCE, KY Tested Unique Number : 10876964 : 16 Feb 2024 - Don Baldridge US 41051 Diagnosed Test Package : CONST (Additional Tests: KF) Contact: JOHNIE MCQUEEN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. johnie@kentonequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (859)356-9091 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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