

NORMAL WEAR CONTAMINATION ABNORMAL **FLUID CONDITION ATTENTION**

Machine Id KENWORTH T880 427183 (S/N 1NKZL40X6HJ164232) **1** Differential GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 1sr Axle / Pusher)

WEAR

All component wear rates are normal.

CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

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FLU	U			

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0123586	GFL0089377	
Sample Date		Client Info		03 Jul 2024	09 Aug 2023	
Machine Age	hrs	Client Info		328651	298070	
Oil Age	hrs	Client Info		328651	298070	
Filter Age	hrs	Client Info		328651	0	
Oil Changed		Client Info		Not Changd	Changed	
Filter Changed		Client Info		Not Changd	N/A	
Sample Status				ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>500	498	▲ 600	
Chromium	ppm	ASTM D5185m	>10	4	4	
Nickel	ppm	ASTM D5185m	>10	5	14	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	18	44	
Lead	ppm	ASTM D5185m	>25	<1	4	
Copper	ppm	ASTM D5185m	>100	6	28	
Tin	ppm	ASTM D5185m	>10	7	23	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	mqq	ASTM D5185m	>75	68	A 116	
Potassium	ppm	ASTM D5185m	>20	2	6	
Potassium Water	ppm	ASTM D5185m WC Method	>20 >.2	2 NEG	6 NEG	
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >.2 NONE	2 NEG NONE	6 NEG NONE	
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual	>20 >.2 NONE NONE	2 NEG NONE	6 NEG NONE NONE	
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >.2 NONE NONE NONE	2 NEG NONE MODER NONE	6 NEG NONE NONE NONE	
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >.2 NONE NONE NONE NORML	2 NEG NONE MODER NONE NORML	6 NEG NONE NONE NORE	
Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >.2 NONE NONE NORML NORML	2 NEG NONE MODER NONE NORML NORML	6 NEG NONE NONE NORE NORML NORML	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >.2 NONE NONE NORML NORML >.2	2 NEG NONE MODER NORE NORML NORML NEG	6 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >.2 NONE NONE NORML NORML >.2	2 NEG NONE MODER NONE NORML NORML NEG	6 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2	2 NEG NONE MODER NORML NORML NEG 2	6 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >.2 NONE NONE NORML >.2	2 NEG NONE MODER NORML NORML NEG 2 26	6 NEG NONE NONE NORML NORML NEG 4	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2 400 200	2 NEG NONE MODER NORML NORML NEG 2 26 0	6 NEG NONE NONE NORML NORML NEG 4 192 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NORM NORM >.2 400 200	2 NEG NONE MODER NORML NORML NEG 2 26 0 <1	6 NEG NONE NONE NORML NORML NEG 4 192 0 <1	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML >.2 400 200 12	2 NEG NONE NORE NORML NORML NEG 2 26 0 <1 6	6 NEG NONE NONE NORML NORML NEG 4 192 0 <1 10	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2 400 200 12	2 NEG NONE NONE NORML NORML NEG 2 26 0 <1 6 2	6 NEG NONE NONE NORML NORML NEG 4 192 0 <1 10 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2 400 200 12 12	2 NEG NONE NONE NORML NEG 2 26 0 <1 6 2 6	6 NEG NONE NONE NORML NORML NEG 4 192 0 <1 10 0 18	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML >.2 400 200 12 12 12 150 1650	2 NEG NONE NONE NORML NORML NEG 2 26 0 <1 6 2 6 6 6 632	6 NEG NONE NONE NORML NORML NEG 4 192 0 <1 10 0 <18 1216	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML >.2 400 200 12 12 12 150 1650 125	2 NEG NONE NONE NORML NORML NEG 2 26 0 <1 6 2 6 6 6 32 8	6 NEG NONE NONE NORML NORML NEG 4 192 0 <11 10 0 <11 10 0 18 1216 48	
Potassium 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 ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2 400 200 12 12 12 12 150 125 125 22500	2 NEG NONE NONE NORML NORML NEG 2 26 0 <1 6 2 6 6 2 6 6 2 8 18456	6 NEG NONE NONE NONE NORML NORML NEG 4 192 0 <1 10 0 <1 10 0 18 1216 48 25056	

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Submitted By: TECHNICIAN ACCOUNT





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 983 - Sugar Land Hauling Sample No. Received 16011 West Belfort Street : GFL0123586 : 09 Jul 2024 Lab Number : 06231797 Tested Sugar Land, TX : 10 Jul 2024 Unique Number : 11115290 Diagnosed : 11 Jul 2024 - Jonathan Hester US 77498 Test Package : FLEET Contact: TECHNICIAN ACCOUNT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. wcgfldemo@gmail.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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