

#### Machine Id **76** Component **Transfer Case** Fluid **TRC MOLY ULTRA-TEC GEAR OIL 85W140 (1 GAL)**

## RECOMMENDATION

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. 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.

## WEAR

Gear wear is indicated. All other component wear rates are normal.

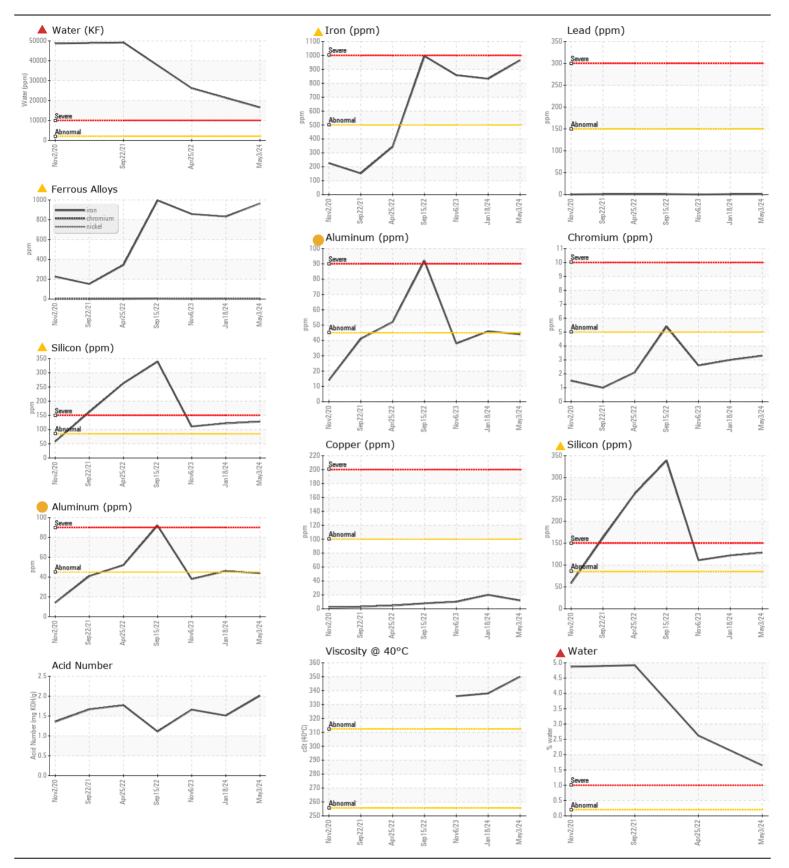
# CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. There is a high concentration of water present in the oil.

# FLUID CONDITION

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0001536	TR0001348	TR0001147
Sample Date	bro	Client Info		03 May 2024	18 Jan 2024	06 Nov 2023
Machine Age	hrs	Client Info		24753	24114	23801
Oil Age	hrs	Client Info		24753	24114	23801
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A		N/A
 Sample Status				SEVERE	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>500	<b>4</b> 965	▲ 832	<b>A</b> 858
Chromium	ppm	ASTM D5185m	>5	3	3	3
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>45	<b>4</b> 4	<b>4</b> 6	38
Lead	ppm	ASTM D5185m	>150	1	<1	0
Copper	ppm	ASTM D5185m	>100	12	20	10
Tin	ppm	ASTM D5185m	>5	2	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
 0'''					4.00	· · · · · · · · · · · · · · · · · · ·
Silicon	ppm	ASTM D5185m	>85	▲ 128 -	▲ 122 -	▲ 111 ¬
Potassium	ppm	ASTM D5185m	>20	7	7	7
Water	%	ASTM D6304	>0.2	▲ 1.65		
ppm Water	ppm	ASTM D6304	>2000	<b>16500</b>		
	000-0-	*\/;		NONE		
Silt Debrie	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Debris Sand/Dirt	scalar scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE	NONE
Debris Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE NORML	NONE NONE HAZY	NONE NORML	NONE NORML
Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NORML NORML	NONE NONE HAZY NORML	NONE NONE NORML NORML	NONE NONE NORML NORML
Debris Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE NORML	NONE NONE HAZY	NONE NORML	NONE NORML
Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NORML NORML	NONE NONE HAZY NORML	NONE NONE NORML NORML	NONE NONE NORML NORML
Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NORML NORML	NONE NONE HAZY NORML 0.2%	NONE NONE NORML NORML NEG	NONE NORE NORML NORML NEG
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML NORML	NONE NONE HAZY NORML 0.2% 20	NONE NONE NORML NORML NEG 18	NONE NORML NORML NEG 16
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NONE HAZY NORML 0.2% 20 245	NONE NONE NORML NORML NEG 18 336	NONE NORML NORML NEG 16 298
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NONE HAZY NORML 0.2% 20 245 0	NONE NONE NORML NEG 18 336 0	NONE NORML NORML NEG 16 298 <1
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NONE HAZY NORML 0.2% 20 245 0 0	NONE NONE NORML NORML NEG 18 336 0 <1	NONE NORML NORML NEG 16 298 <1 0
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NONE HAZY NORML 0.2% 20 245 0 0 0 8	NONE NONE NORML NORML NEG 18 336 0 <1 7	NONE NORML NORML NEG 16 298 <1 0 6
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NONE HAZY NORML 0.2% 20 245 0 0 8 8 8	NONE NONE NORML NORML NEG 18 336 0 <1 7 6	NONE NORML NORML NEG 16 298 <1 0 6 4
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NONE HAZY NORML 0.2% 20 245 0 0 0 8 8 8 96	NONE NORML NORML NEG 18 336 0 <1 7 6 99	NONE NORML NORML NEG 16 298 <1 0 6 4 88
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NONE HAZY NORML 0.2% 20 245 0 245 0 0 8 8 8 96 1252	NONE NORML NORML NEG 18 336 0 <1 7 6 99 1296	NONE NORML NORML NEG 16 298 <1 0 6 4 88 1157
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NONE HAZY NORML 0.2% 20 245 0 0 0 8 8 8 96 1252 23	NONE NORML NORML NEG 18 336 0 <1 7 6 99 1296 10	NONE NORML NORML NEG 16 298 <1 0 6 4 88 1157 5
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NONE HAZY NORML 0.2% 20 245 0 0 8 8 8 96 1252 23 23 25542	NONE NONE NORML NORML NEG 18 336 0 <1 7 6 99 1296 10 25028	NONE NORML NORML NEG 16 298 <1 0 6 4 88 1157 5 21730
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Acid Number (AN)	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NONE HAZY NORML 0.2% 20 245 0 0 8 8 8 96 1252 23 25542 2.01	NONE NORML NORML NEG 18 336 0 <1 7 6 99 1296 10 25028 1.51	NONE NORML NORML NEG 16 298 <1 0 6 4 88 1157 5 21730 1.66



S S CONCRETE MATERIALS LLC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 P.O. BOX 23283 Sample No. : TR0001536 Received :09 May 2024 : 06174707 BULLHEAD CITY, AZ Lab Number Tested : 13 May 2024 : 13 May 2024 - Don Baldridge US 86439 Unique Number : 11020760 Diagnosed Test Package : MOB 2 (Additional Tests: KF, KV100, VI) Contact: MARK OPHEIM Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (928)754-1991

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Submitted By: SNS INVENTORY Page 2 of 2