

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id **185** Component **Rear Differential** Filuid **GEAR OIL SAE 75W90 (--- GAL)**

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

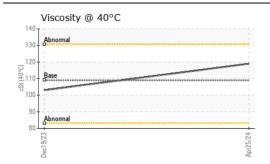
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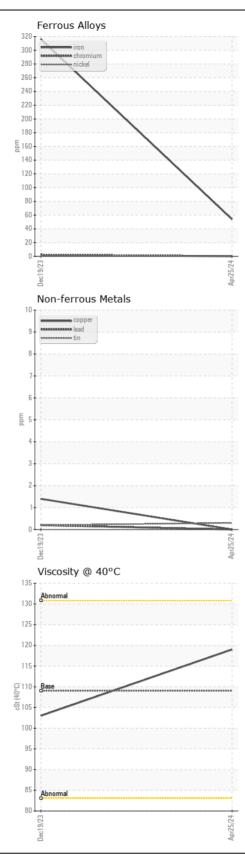
FLUID CONDITION

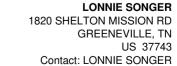
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC06160749	WC06040851	
Sample Date		Client Info		25 Apr 2024	19 Dec 2023	
Machine Age	mls	Client Info		820250	788035	
Oil Age	mls	Client Info		0	0	
Filter Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
			E00	E 4	010	
Iron	ppm	ASTM D5185m	>500	54	316	
Chromium	ppm	ASTM D5185m	>10	0	2	
Nickel	ppm	ASTM D5185m	>10	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	05	0	0	
Aluminum	ppm	ASTM D5185m	>25	0	4	
Lead	ppm	ASTM D5185m	>25	0	<1	
Copper	ppm	ASTM D5185m	>100	0	1	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m	NONE	0	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>75	20	NONE ▲ 78	
Silicon	ppm	ASTM D5185m	>75	20	▲ 78	
Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>75 >20	20 <1	▲ 78 0	
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>75 >20 >.2	20 <1 NEG	▲ 78 0 NEG	
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>75 >20 >.2 NONE	20 <1 NEG NONE	 78 0 NEG NONE 	
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>75 >20 >.2 NONE NONE	20 <1 NEG NONE NONE	 78 0 NEG NONE NONE 	
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	>75 >20 >.2 NONE NONE NONE	20 <1 NEG NONE NONE NONE	 78 0 NEG NONE NONE NONE 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>75 >20 >.2 NONE NONE NONE NORML	20 <1 NEG NONE NONE NONE NORML	 78 0 NEG NONE NONE NONE NONE NORML 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 >.2 NONE NONE NONE NORML NORML	20 <1 NEG NONE NONE NONE NORML NORML NEG	 78 0 NEG NONE NONE NORML NORML NEG 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>75 >20 >.2 NONE NONE NORML NORML >.2	20 <1 NEG NONE NONE NORML NORML NEG 0	 78 0 NEG NONE NORML NORML NEG 10 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar gppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>75 >20 >.2 NONE NONE NORML >.2	20 <1 NEG NONE NONE NORML NORML NEG 0 38	 78 0 NEG NONE NONE NORML NORML NEG 10 237 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>75 >20 >.2 NONE NONE NORML NORML >.2	20 <1 NEG NONE NONE NORML NORML NEG 0 38 0	 78 0 NEG NONE NONE NORML NORML NORML NEG 10 237 0 	
Silicon Potassium 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 D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >.2 NONE NONE NORML >.2	20 <1 NEG NONE NONE NORML NORML NEG 0 38 0 0	 78 0 NEG NONE NORML NORML NEG 10 237 0 <1 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >.2 NONE NORME NORML >.2 400 200 12	20 <1 NEG NONE NONE NORML NORML NEG 0 38 0 0 2	 78 0 NEG NONE NONE NORML NORML NEG 10 237 0 <1 14 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >.2 NONE NONE NORML >.2 400 200 12	20 <1 NEG NONE NONE NORML NORML NEG 0 38 0 0 38 0 2 4	 78 0 NEG NONE NONE NORML NORML NORML NORML 10 237 0 <1 14 0 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >.2 NONE NORML NORML >.2 400 200 12	20 <1 NEG NONE NONE NORML NORML NEG 0 38 0 0 38 0 2 4 33	 78 0 NEG NONE NONE NORML NORML NEG 10 237 0 <1 14 0 8 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >.2 NONE NORM NORML >.2 400 200 12 12 12 150 1650	20 <1 NEG NONE NONE NORML NORML NEG 0 38 0 38 0 2 4 33 33	 78 0 NEG NONE NONE NORML NORML NORML 10 237 0 41 14 0 8 1279 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >.2 NONE NONE NORML >.2 400 200 12 12 12 150 1650 125	20 <1 NEG NONE NONE NORML NORML NEG 0 38 0 0 38 0 0 2 4 33 588 12	 78 0 NEG NONE NONE NORML NORML NORML 237 237 237 14 14 8 1279 9 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >.2 NONE NORM NORML >.2 400 200 12 12 12 150 1650	20 <1 NEG NONE NONE NORML NORML NEG 0 38 0 38 0 2 4 33 33	 78 0 NEG NONE NONE NORML NORML NORML 10 237 0 41 14 0 8 1279 	

Contact/Location: LONNIE SONGER - LONGRETN







T:

F:



 Unique Number
 : 10996172
 Diagnosed
 : 26 Apr 2024 - Wes Davis

 Certificate 12367
 Test Package
 : FLEET
 Contact

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

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

Received

Tested

: 25 Apr 2024

: 26 Apr 2024

Report Id: LONGRETN [WUSCAR] 06160749 (Generated: 04/26/2024 13:50:55) Rev: 1

Laboratory

Sample No.

Lab Number : 06160749

: WC06160749

Contact/Location: LONNIE SONGER - LONGRETN Page 2 of 2