

#### NORMAL **WEAR** CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

# Machine Id 3830300 Left Final Drive GEAR OIL SAE 80W90 (--- GAL)

# RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### WEAR

All component wear rates are normal.

### CONTAMINATION

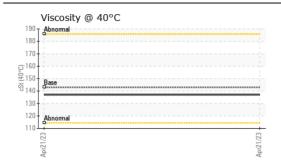
Moderate concentration of visible dirt/debris present in the oil.

## **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		WC0774601		
Sample Date		Client Info		21 Apr 2023		
Machine Age	hrs	Client Info		0		
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				NORMAL		
Iron	nnm	ASTM D5185m	>500	89		
Chromium	ppm	ASTM D5185m	>10	2		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m	>10	۰ <1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	12		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>50	0		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m	>10	0		
White Metal	ppm scalar	*Visual	NONE	MODER		
Yellow Metal	scalar	*Visual	NONE	NONE		
	Scalal	visuai				
Silicon	ppm	ASTM D5185m	>75	41		
Potassium	ppm	ASTM D5185m	>20	8		
Water		WC Method	>0.2	NEG		
Water Silt	scalar	WC Method *Visual	>0.2 NONE	NEG NONE		
Silt	scalar	*Visual	NONE	NONE		
Silt Debris	scalar scalar	*Visual *Visual	NONE NONE	NONE		
Silt Debris Sand/Dirt	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE NONE	NONE MODER NONE		
Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NORML	NONE MODER NONE NORML		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML >0.2	NONE MODER NONE NORML NORML NEG	   	   
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE NONE NORML NORML >0.2 >170	NONE MODER NONE NORML NORML NEG 0		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NORML NORML >0.2 >170 400	NONE MODER NONE NORML NORML NEG 0 198		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NONE NORML >0.2 >170 400 200	NONE MODER NONE NORML NEG 0 198 0		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML >0.2 >170 400	NONE MODER NONE NORML NORML NEG 0 198 0 <1		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 >170 400 200 12	NONE MODER NONE NORML NEG 0 198 0 <1 2		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NONE NORML >0.2 >170 400 200 12	NONE MODER NONE NORML NORML NEG 0 198 0 <1 2 6		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML >0.2 >170 400 200 12 12 12	NONE MODER NORML NORML NEG 0 198 0 <198 0 <1 2 6 85		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 >170 400 200 12 12 12 150 150	NONE MODER NORML NORML NEG 0 198 0 <1 2 6 85 1005		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORME NORML >0.2 >170 400 200 12 12 12 150 1650 125	NONE MODER NORML NORML NEG 0 198 0 <198 0 <1 2 6 85 1005 21		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 >170 400 200 12 12 12 150 150	NONE MODER NORML NORML NEG 0 198 0 <1 2 6 85 1005		

Contact/Location: SHOP MANAGER - HAYALP



Ferrous Alloys 90 85 80 nicke 75 70 65 60 55 50 E 45 40 35 30 25 20 15 10 5 0. pr21/23 Non-ferrous Metals 10 lead mdo Dr71/73 Apr21 Viscosity @ 40°C 190 185 180 175 170 165 160 () 155 () 0-0+ 150 <sup>ਲ</sup>ੋਂ 145 140 135 130 125 120 115-Abno 110 Apr21/23 -Apr21/23



**KELLER - NORTH AMERICA** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0774601 Recieved :04 May 2023 **510 NINE NORTH COURT** Lab Number : 09 May 2023 ALPHARETTA, GA : 05838782 Diagnosed Unique Number : 10457585 Diagnostician : Don Baldridge US 30004-2961 Test Package : CONST Contact: SHOP MANAGER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. SRLEWIS@KELLER-NA.COM \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (770)442-1801 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (770)442-8344

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