

## WEAR SEVERE CONTAMINATION NORMAL FLUID CONDITION ATTENTION



[276792] BELL B50E B93A650EH03007613

Front Differential

GEAR OIL LS 80W90 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## WEAR

The lead level is severe. All other component wear rates are normal.

## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

The oil viscosity is lower than normal. This plus the additive levels indicates 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		BE0003141		
Sample Date		Client Info		09 Jul 2024		
Machine Age	hrs	Client Info		4196		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		None		
Sample Status				SEVERE		
PQ		ASTM D8184	>3000	45		
Iron	ppm	ASTM D0104 ASTM D5185m	>HR:1=	43 93		
Chromium		ASTM D5185m	>10	33 1		
Nickel	ppm	ASTM D5185m	>10	י <1		
Titanium	ppm	ASTM D5185m	>10	<1 <1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>25 >25	2 ▲ 245		
	ppm	ASTM D5185m	>20	245 32		
Copper Tin	ppm	ASTM D5185m		32 <1		
Vanadium	ppm	ASTM D5185m	>10	< 1 0		
White Metal	ppm scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
		visuai				
Silicon	ppm	ASTM D5185m	>201	23		
Potassium	ppm	ASTM D5185m	>20	3		
Water		WC Method	>1.01	NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	LIGHT		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>1.01	NEG		
Sodium	ppm	ASTM D5185m		14		
Boron	ppm	ASTM D5185m	150	101		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		3		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m	10	11		
Calcium	ppm	ASTM D5185m	70	9 3600		
Phosphorus	ppm	ASTM D5185m	2000	<b>1</b> 325		
Zinc	ppm	ASTM D5185m	50	<b>1488</b>		
Sulfur	ppm	ASTM D5185m	20000	8665		
Visc @ 40°C	cSt	ASTM D445	140	93.9		
					Cult	



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Four Seasons Equipment Inc. Sample No. 8111 Mills Road : BE0003141 Received : 15 Jul 2024 Lab Number : 06236463 : 16 Jul 2024 Tested Houston, TX Unique Number : 11125297 : 17 Jul 2024 - Sean Felton US 77064 Diagnosed Test Package : MOBCE Contact: Vaughan Phillips Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. vphillips@fourseasons-equip.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (800)234-5007 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)