

WEAR SEVERE CONTAMINATION NORMAL FLUID CONDITION ATTENTION



[276792] Machine Id BELL B50E B93A650EH03007613 Component Rear Differential

id

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		BE0003142		
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		Not Changd		
Sample Status				SEVERE		
PQ		ASTM D8184	>3000	40		
Iron	ppm	ASTM D5185m	>HR:1=	82		
Chromium	ppm	ASTM D5185m	>10	1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>25	A 211		
Copper	ppm	ASTM D5185m	>100	28		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silioon		ACTM DE10Em	× 201	01		
Deteccium	ppm	ACTM DE105m	>201	21		
Polassium	ррп	ASTIN DOTODII	>20	2		
vvaler	agalar			NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	"Visual	NONE	LIGHT		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor Engelsifie d Mater	scalar	*Visual	NORML	NORML		
Emulsified water	scalar	"VISUAI	>1.01	NEG		
Sodium	ppm	ASTM D5185m		12		
Boron	ppm	ASTM D5185m	150	89		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		3		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m	10	10		
Calcium	ppm	ASTM D5185m	70	3170		
Phosphorus	ppm	ASTM D5185m	2000	1151		
Zinc	ppm	ASTM D5185m	50	1297		
Sulfur	ppm	ASTM D5185m	20000	7391		
Visc @ 40°C	cSt	ASTM D445	140	94.8		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Four Seasons Equipment Inc. Sample No. : BE0003142 Received 8111 Mills Road : 15 Jul 2024 ŕΪ Lab Number : 06236462 Tested : 16 Jul 2024 Houston, TX Unique Number : 11125296 : 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)