

Machine Id **3069** Component **Rear Differential** Fluid **GEAR OIL SAE 75W90 (--- GAL)**

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

The iron level is severe. Gear wear is indicated.

CONTAMINATION

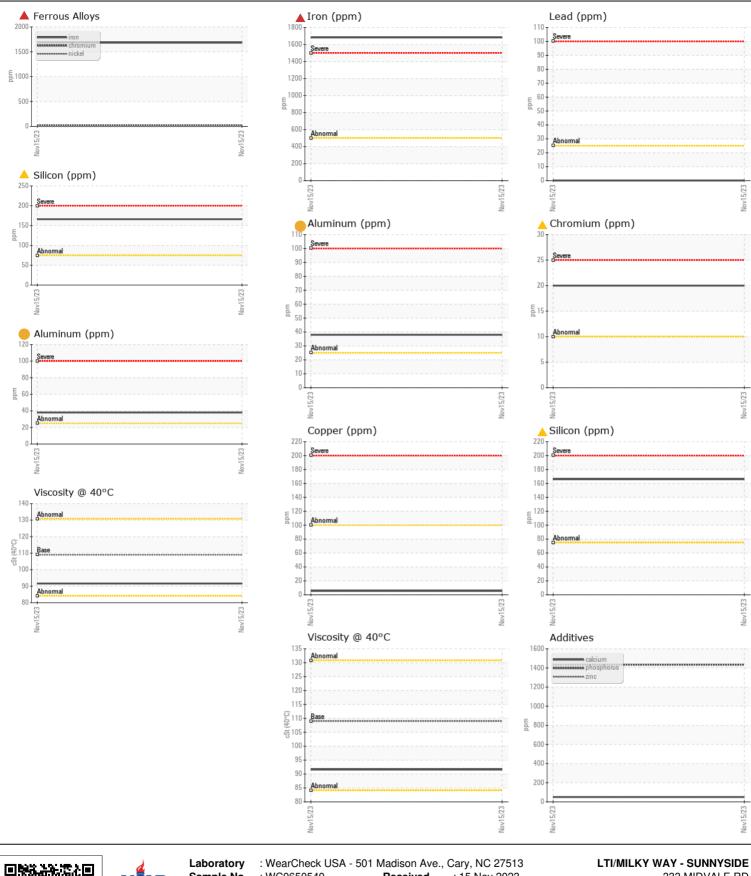
Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0650540		
Sample Date		Client Info		15 Nov 2023		
Machine Age	mls	Client Info		0		
Oil Age	mls	Client Info		0		
Filter Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				SEVERE		
Iron	ppm	ASTM D5185m	>500	1683		
Chromium	ppm	ASTM D5185m	>10	<mark>▲</mark> 20		
Nickel	ppm	ASTM D5185m	>10	3		
Titanium	ppm	ASTM D5185m		2		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<mark>)</mark> 38		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>100	6		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>75	1 66		
Potassium	ppm	ASTM D5185m	>20	5		
Water		WC Method	>.2	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	>.2	NEG		
Sodium		ASTM D5185m		18		
Boron	ppm	ASTM D5185m	400	210		
Barium	ppm		200			
Molybdenum	ppm	ASTM D5185m ASTM D5185m	12	8 2		
	ppm	ASTM D5185m	12	2 29		
Manganese	ppm	ASTM D5185m	12	29 19		
Magnesium Calcium	ppm					
	ppm	ASTM D5185m	150	50		
Phosphorus	ppm	ASTM D5185m	1650	1434		
Zinc	ppm	ASTM D5185m	125	54		
Sulfur	ppm	ASTM D5185m	22500	29724		
Visc @ 40°C	cSt	ASTM D445	109	91.6		

Contact/Location: JERRY CRISP - LTISUN



Sample No. Received 333 MIDVALE RD : WC0650540 : 15 Nov 2023 Lab Number : 06009224 SUNNYSIDE, WA Tested : 16 Nov 2023 Unique Number : 10742986 : 17 Nov 2023 - Angela Borella US 98944 Diagnosed Test Package : MOB1+ Contact: JERRY CRISP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jcrisp@ltii.lynden.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (509)839-5844 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (509)839-6556

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