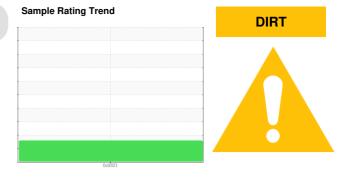
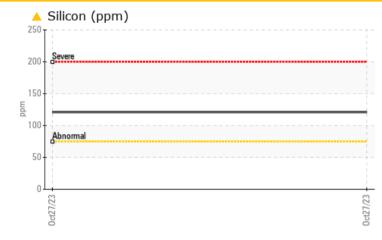
PROBLEM SUMMARY



Machine Id G91 Component Rear Differential Fluid GEAR OIL SAE 75W90 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 75-90 full synthetic gear oil.)

PROBLEMATIC TEST RESULTS										
Sample Status			ABNORMAL							
Silicon	ppm	ASTM D5185m	>75	🔺 121						

Customer Id: AVWHOM Sample No.: WC0858121 Lab Number: 05993881 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **G91** Component **Rear Differential** Fluid **GEAR OIL SAE 75W90 (--- GAL)**

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 75-90 full synthetic gear oil.)

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

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

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0858121		
Sample Date		Client Info		27 Oct 2023		
Machine Age	hrs	Client Info		10908		
Dil Age	hrs	Client Info		3300		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>500	398		
Chromium	ppm	ASTM D5185m	>10	2		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	1		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm		>100	2		
Tin	ppm	ASTM D5185m	>100	- <1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	400	203		
Barium	ppm	ASTM D5185m	200	203		
	ppm			<1		
Molybdenum	ppm	ASTM D5185m	12			
Manganese	ppm	ASTM D5185m	10	7		
Magnesium	ppm	ASTM D5185m	12	4		
Calcium	ppm	ASTM D5185m	150	25		
Phosphorus	ppm	ASTM D5185m	1650	1354		
Zinc	ppm	ASTM D5185m	125	46		
Sulfur	ppm	ASTM D5185m	22500	36789		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<u> </u>		
Sodium	ppm	ASTM D5185m		11		
Potassium	ppm	ASTM D5185m	>20	5		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
				86.2		,
/isc @ 40°C	cSt	ASTM D445	109	8h 2		

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Submitted By: CODY COLON



OIL ANALYSIS REPORT

