

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Contracting

5109 5109 Component Rear Left Wheel Hub Fluid GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

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All component wear rates are normal.

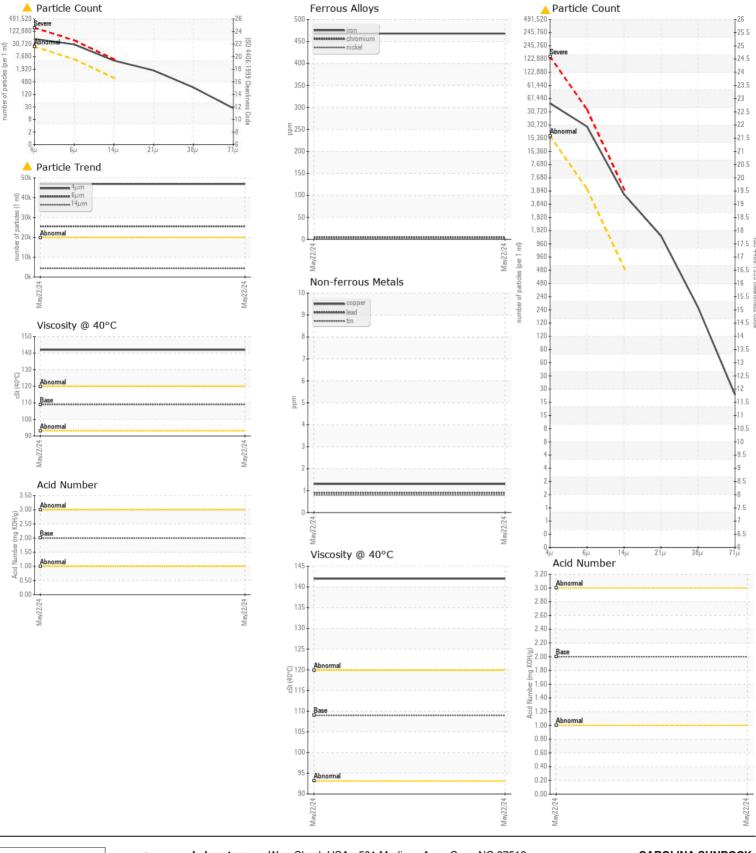
CONTAMINATION

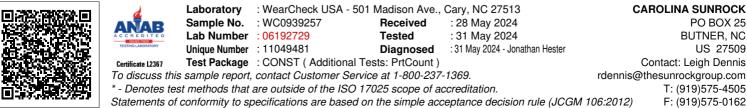
There is a high amount of particulates present in the oil.

FUUD 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		WC0939257		
Sample Date		Client Info		22 May 2024		
Machine Age	hrs	Client Info		3278		
Oil Age	hrs	Client Info		1022		
Filter Age	hrs	Client Info		1022		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
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Iron	ppm	ASTM D5185m	>500	468		
Chromium	ppm	ASTM D5185m	>8	4		
Nickel	ppm	ASTM D5185m	>5	3		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>5	2		
Lead	ppm	ASTM D5185m	>5	<1		
Copper	ppm	ASTM D5185m	>50	1		
Tin	ppm	ASTM D5185m		<1		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>25	10		
Potassium	ppm	ASTM D5185m	>20	6		
Water		WC Method	>0.2	NEG		
Particles >4µm		ASTM D7647	>20000	A 46952		
Particles >6µm		ASTM D7647	>5000	🔺 25578		
Particles >14µm		ASTM D7647	>640	🔺 4353		
Particles >21µm		ASTM D7647	>160	🔺 1466		
Particles >38µm		ASTM D7647	>40	<u> </u>		
Particles >71µm		ASTM D7647	>10	4 23		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>		
Silt	scalar	*Visual	NONE	MODER		
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	>0.2	NEG		
Sodium	ppm	ASTM D5185m	105	4		
Boron	ppm	ASTM D5185m	400	20		
Barium	ppm	ASTM D5185m	200	<1		
Molybdenum	ppm	ASTM D5185m	12	2		
Manganese	ppm	ASTM D5185m	10	6		
Magnesium	ppm	ASTM D5185m	12	20		
Calcium	ppm	ASTM D5185m	150	54		
Phosphorus	ppm	ASTM D5185m	1650	581		
Zinc	ppm	ASTM D5185m	125	53		
Sulfur	ppm	ASTM D5185m	22500	22723		
Visc @ 40°C	cSt	ASTM D445	109	142		





Contact/Location: Leigh Dennis - CARBUTNC Page 2 of 2