

WEAR **ABNORMAL** CONTAMINATION **ABNORMAL** FLUID CONDITION NORMAL

History1

History2

Contracting 1DW310EXJNF716118 5111 Component Rear Differential

MOBIL MOBILFLUID 424 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current
We recommend you service the filters on this component if applicable.	Sample Number		Client Info		WC0809011
Resample at the next service interval to monitor.	Sample Date	la un	Client Info		18 May 2023
	Machine Age	hrs	Client Info		772
	Oil Age	hrs	Client Info		103
	Filter Age	hrs	Client Info		0
	Oil Changed		Client Info		Not Changd
	Filter Changed		Client Info		Not Changd
	Sample Status			ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>500	235
	Chromium	ppm	ASTM D5185m	>10	3
The copper level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	8
nonnai.	Titanium	ppm	ASTM D5185m		<1
	Silver	ppm	ASTM D5185m		0
	Aluminum	ppm	ASTM D5185m	>25	3
	Lead	ppm	ASTM D5185m	>25	6
	Copper	ppm	ASTM D5185m	>100	🔺 114
	Tin	ppm	ASTM D5185m	>10	7
	Vanadium	ppm	ASTM D5185m		<1
	White Metal	scalar	*Visual	NONE	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	13
	Potassium	ppm	ASTM D5185m	>20	2
There is a high amount of particulates present in the oil. High	Water		WC Method	>.2	NEG
concentration of visible dirt/debris present in the oil.	Particles >4µm		ASTM D7647	>20000	▲ 50067
	Particles >6µm		ASTM D7647	>5000	A 27274
	Particles >14µm		ASTM D7647	>640	4642
	Particles >21µm		ASTM D7647	>160	🔺 1564
	Particles >38µm		ASTM D7647	>40	A 241
	Particles >71µm		ASTM D7647	>10	4 25

FLUID CONDITION

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

White Metal	scalar	*Visual	NONE	MODER	
Yellow Metal			NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	 NONE	
Silicon	ppm	ASTM D5185m	>75	13	
Potassium	ppm	ASTM D5185m	>20	2	
Water	1-1-	WC Method	>.2	NEG	
Particles >4µm		ASTM D7647	>20000	50067	
Particles >6µm		ASTM D7647	>5000	27274	
Particles >14µm		ASTM D7647	>640	4642	
Particles >21µm		ASTM D7647	>160	1564	
Particles >38µm		ASTM D7647	>40	241	
Particles >71µm		ASTM D7647	>10	25	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	23/22/19	
Silt	scalar	*Visual	NONE	NONE	
Debris	scalar	*Visual	NONE	HEAVY	
Sand/Dirt	scalar	*Visual	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	
Emulsified Water	scalar	*Visual	>.2	NEG	
Sodium	ppm	ASTM D5185m		19	
Boron	ppm	ASTM D5185m		96	
Barium	ppm	ASTM D5185m		0	
Molybdenum	ppm	ASTM D5185m		<1	
Manganese	ppm	ASTM D5185m		62	
Magnesium	ppm	ASTM D5185m		22	
Calcium	ppm	ASTM D5185m		3620	
Phosphorus	ppm	ASTM D5185m		1176	
Zinc	ppm	ASTM D5185m		1495	
Sulfur	ppm	ASTM D5185m		4093	
Visc @ 40°C	cSt	ASTM D445	55	63.5	



Contact/Location: Leigh Dennis - CARBUTNC

Page 2 of 2