

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. 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. (Customer Sample Comment: Synthetic 80w/90 gear oil)

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL			
Iron	ppm	ASTM D5185m	>800	e 4313	9 31			
Chromium	ppm	ASTM D5185m	>10	9 53	1 3			
Nickel	ppm	ASTM D5185m	>5	<u> </u>	2			
Aluminum	ppm	ASTM D5185m	>75	人 107	13			
Silicon	ppm	ASTM D5185m	>400	<u> </u>	23			

Customer Id: MANTUL Sample No.: WC0818790 Lab Number: 06010417 Test Package: CONST



To discuss the diagnosis or test data:

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To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.	
Resample			?	We recommend an early resample to monitor this condition.	
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.	

HISTORICAL DIAGNOSIS



01 Jan 2023 Diag: Don Baldridge

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 Gear wear is indicated. All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area [19813] Machine Id 52-158 Component Left Final Drive

Fluid synthetic 80w-90 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. 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. (Customer Sample Comment: Synthetic 80w/90 gear oil)

• Wear

Gear wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

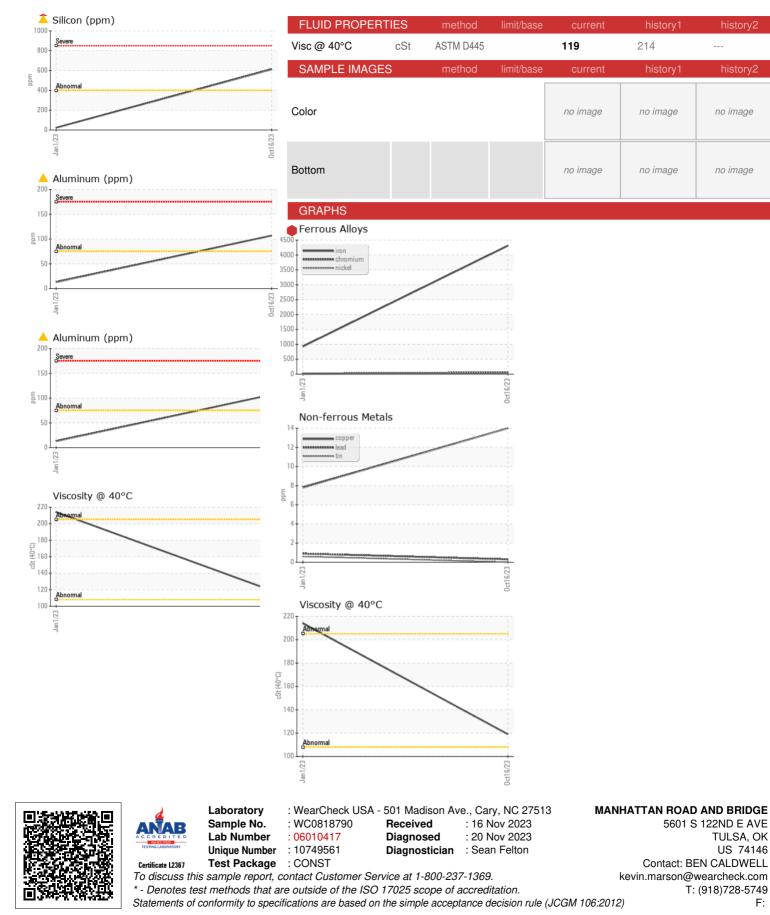
Fluid Condition

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

AL)			Jan2023	Oct2023		
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0818790	WC0754782	
Sample Date		Client Info		16 Oct 2023	01 Jan 2023	
	hrs	Client Info		1003	532	
Ũ	hrs	Client Info		1003	532	
Oil Changed		Client Info		Changed	Changed	
Sample Status				SEVERE	ABNORMAL	
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	e 4313	4 931	
	ppm	ASTM D5185m	>10	5 3	1 3	
	ppm	ASTM D5185m	>5	▲ 8	2	
	ppm	ASTM D5185m	>15	9	<1	
		ASTM D5185m	>2	9	0	
	ppm			↓ 107	13	
	ppm	ASTM D5185m				
	ppm	ASTM D5185m	>10	<1	<1	
	ppm	ASTM D5185m	>75	14	8	
	ppm	ASTM D5185m	>8	0	<1	
	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		422	144	
Barium	ppm	ASTM D5185m		8	15	
Molybdenum	ppm	ASTM D5185m		3	<1	
Manganese	ppm	ASTM D5185m		36	9	
Magnesium	ppm	ASTM D5185m		23	33	
Calcium	ppm	ASTM D5185m		183	44	
Phosphorus	ppm	ASTM D5185m		1435	1258	
	ppm	ASTM D5185m		48	114	
	ppm	ASTM D5185m		24336	25056	
CONTAMINANTS	ppm	method	limit/base			biotory?
				current	history1	history2
	ppm	ASTM D5185m	>400	612	23	
	ppm	ASTM D5185m		16	21	
	ppm	ASTM D5185m	>20	37	12	
VISUAL		method	limit/base	current	history1	history2
	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt :	scalar	*Visual	NONE	NONE	NONE	
	scalar	*Visual	NORML	NORML	NORML	
	scalar	*Visual	NORML	NORML	NORML	
	scalar	*Visual	>0.2	NEG	NEG	
	scalar	*Visual		NEG	NEG	
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OIL ANALYSIS REPORT



Submitted By: JAMES STEELMON

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no image