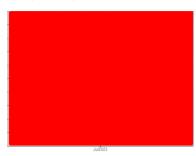


PROBLEM SUMMARY

Sample Rating Trend



WEAR

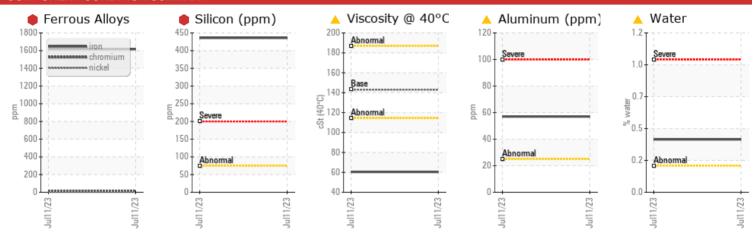


Machine Id 40-62

Right Final Drive

GEAR OIL SAE 80W90 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. 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.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE				
Iron	ppm	ASTM D5185m	>500	1617				
Chromium	ppm	ASTM D5185m	>10	<u> </u>				
Aluminum	ppm	ASTM D5185m	>25	<u> </u>				
Silicon	ppm	ASTM D5185m	>75	436				
Water	%	ASTM D6304	>0.2	△ 0.398				
ppm Water	ppm	ASTM D6304	>2000	4 3980				
Visc @ 40°C	cSt	ASTM D445	143	△ 60.4				

Customer Id: MANTUL Sample No.: WC0750184 Lab Number: 05900339 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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.			
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
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



OIL ANALYSIS REPORT

Sample Rating Trend



40-62 Component

Machine Id

Right Final Drive

GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. 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

Gear wear is indicated.

Contamination

There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

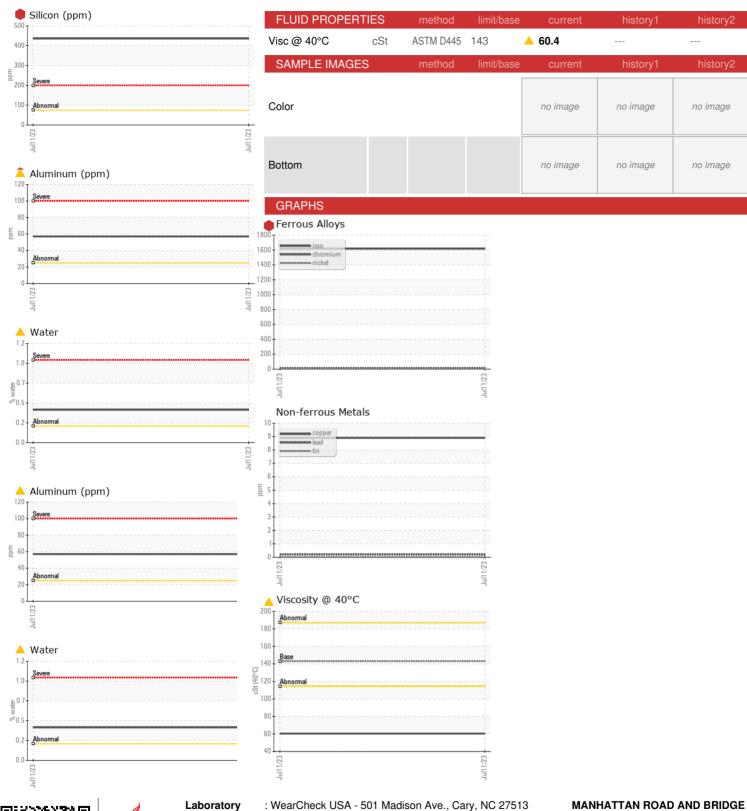
Fluid Condition

The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The oil is no longer serviceable due to the presence of contaminants.

				Jul2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0750184		
Sample Date		Client Info		11 Jul 2023		
Machine Age	hrs	Client Info		8949		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>500	1617		
Chromium	ppm	ASTM D5185m	>10	<u> </u>		
Nickel	ppm	ASTM D5185m	>10	3		
Γitanium	ppm	ASTM D5185m		5		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<u> </u>		
_ead	ppm	ASTM D5185m	>25	<1		
Copper	ppm	ASTM D5185m	>50	9		
Γin	ppm	ASTM D5185m	>10	0		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	61		
Barium	ppm	ASTM D5185m	200	0		
Molybdenum	ppm	ASTM D5185m	12	3		
Manganese	ppm	ASTM D5185m		12		
Magnesium	ppm	ASTM D5185m	12	14		
Calcium	ppm	ASTM D5185m	150	2322		
Phosphorus	ppm	ASTM D5185m	1650	926		
Zinc	ppm	ASTM D5185m	125	970		
Sulfur	ppm	ASTM D5185m	22500	6572		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	436		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	18		
Vater	%	ASTM D6304	>0.2	△ 0.398		
opm Water	ppm	ASTM D6304	>2000	△ 3980		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
ellow 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	>0.2	0.2%		
Free Water	scalar	*Visual		NEG		



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WC0750184 : 05900339 : 10561695

Received Diagnosed

: 17 Jul 2023 : 19 Jul 2023 Diagnostician : Don Baldridge

Test Package : CONST (Additional Tests: KF) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

MANHATTAN ROAD AND BRIDGE

5601 S 122ND E AVE TULSA, OK US 74146

Contact: BEN CALDWELL kevin.marson@wearcheck.com

T: (918)728-5749