

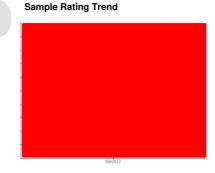
PROBLEM SUMMARY

Area [19320] 20-20

Component

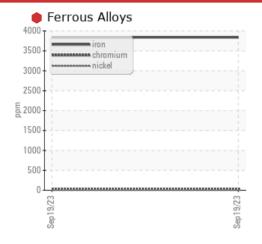
Left Final Drive

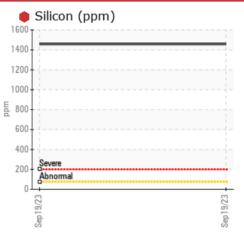
CONOCO PHILLIPS 80W90 (--- GAL)

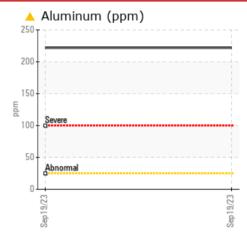




COMPONENT CONDITION SUMMARY







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: ConocoPhillips 80w/90)

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE					
Iron	ppm	ASTM D5185m	>500	3837					
Chromium	ppm	ASTM D5185m	>10	2 5					
Aluminum	ppm	ASTM D5185m	>25	222					
Silicon	ppm	ASTM D5185m	>75	1457					

Customer Id: MANTUL **Sample No.:** WC0818632 Lab Number: 05968458 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

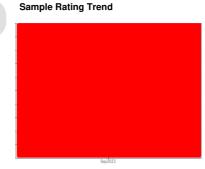


OIL ANALYSIS REPORT

Area [19320] 20-20 Component

Left Final Drive

CONOCO PHILLIPS 80W90 (--- 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: ConocoPhillips 80w/90)

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 due to the presence of contaminants.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0818632		
Sample Date		Client Info		19 Sep 2023		
Machine Age	hrs	Client Info		7973		
Oil Age	hrs	Client Info		973		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	3837		
Chromium	ppm	ASTM D5185m	>10	25		
Nickel	ppm	ASTM D5185m	>10	6		
Titanium	ppm	ASTM D5185m		16		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>25	<u> 222</u>		
Lead	ppm	ASTM D5185m	>25	<1		
Copper	ppm	ASTM D5185m	>50	9		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		96		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		4		
Manganese	ppm	ASTM D5185m		25		
Magnesium	ppm	ASTM D5185m		29		
Calcium	ppm	ASTM D5185m		172		
Phosphorus	ppm	ASTM D5185m		782		
Zinc	ppm	ASTM D5185m		28		
Sulfur	ppm	ASTM D5185m		27829		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	1457		
Sodium	ppm	ASTM D5185m		13		
Potassium	ppm	ASTM D5185m	>20	50		
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	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERT		method	limit/base	current	history1	history2

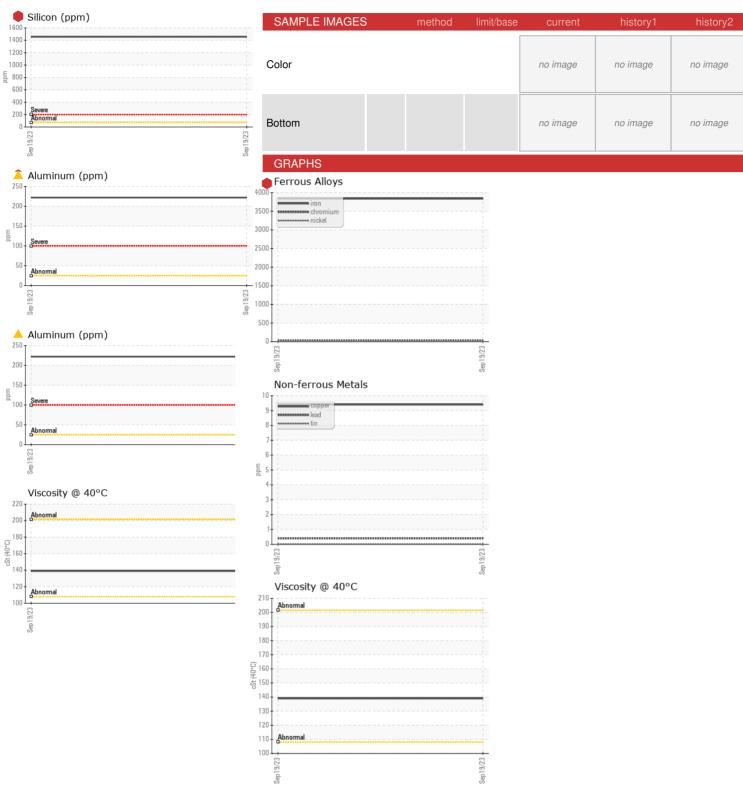
Visc @ 40°C

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OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

: WC0818632 : 05968458 Unique Number : 10675009 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Oct 2023 Diagnosed : 04 Oct 2023

Diagnostician : Doug Bogart

MANHATTAN ROAD AND BRIDGE 5601 S 122ND E AVE

TULSA, OK US 74146

Contact: BEN CALDWELL kevin.marson@wearcheck.com T: (918)728-5749

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)