

PROBLEM SUMMARY

Sample Rating Trend

DIRT

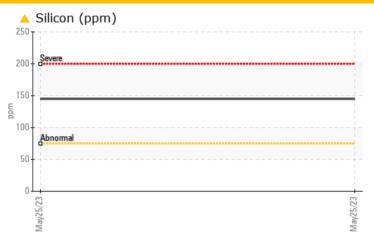
A

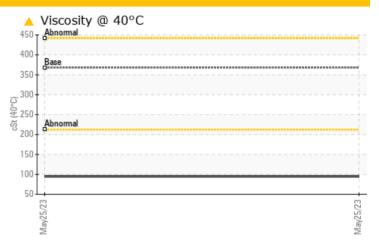
TD-403

Component Rear Differential

GEAR OIL SAE 85W140 (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status			ABNORMAL							
Silicon	ppm	ASTM D5185m	>75	<u> </u>						
Visc @ 40°C	cSt	ASTM D445	368	94.5						

Customer Id: ECPROA Sample No.: WC0705345 Lab Number: 05901600 Test Package: FLEET



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

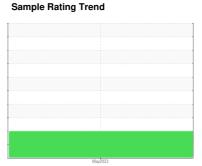
RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT







TD-403

Component

Rear Differential

GEAR OIL SAE 85W140 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

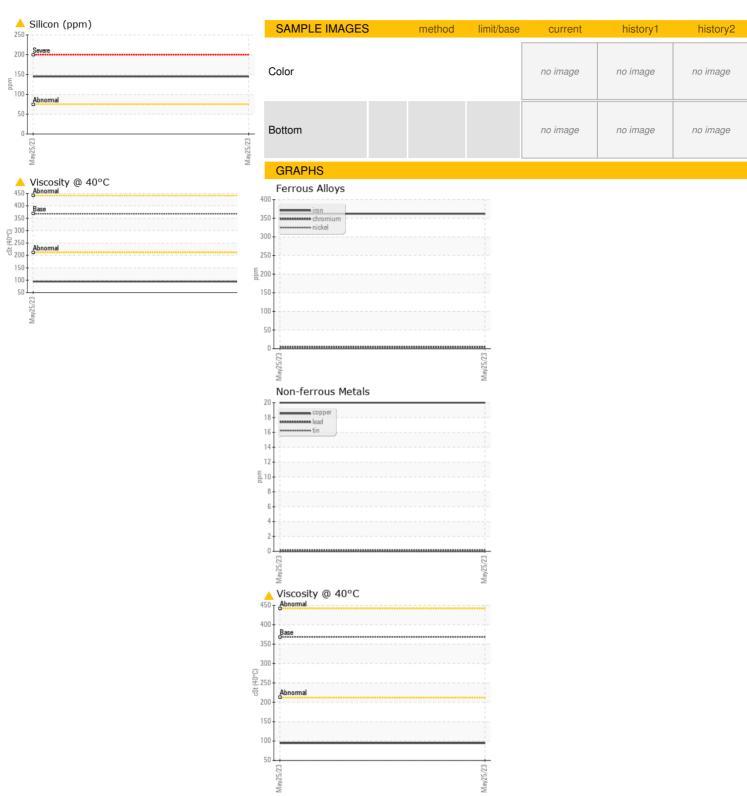
▲ Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

				May2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0705345		
Sample Date		Client Info		25 May 2023		
Machine Age	mls	Client Info		75825		
Oil Age	mls	Client Info		75825		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	362		
Chromium	ppm	ASTM D5185m	>10	4		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	18		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>100	20		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	231		
Barium	ppm	ASTM D5185m	200	3		
Molybdenum	ppm	ASTM D5185m	12	0		
Manganese	ppm	ASTM D5185m		15		
Magnesium	ppm	ASTM D5185m	12	6		
Calcium	ppm	ASTM D5185m	150	22		
Phosphorus	ppm	ASTM D5185m	1650	1477		
Zinc	ppm	ASTM D5185m	125	46		
Sulfur	ppm	ASTM D5185m	22500	30562		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<u> </u>		
Sodium	ppm	ASTM D5185m		14		
Potassium	ppm	ASTM D5185m	>20	4		
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	>.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERT	TES	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

: WC0705345

: 05901600

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 18 Jul 2023 : 20 Jul 2023 Diagnostician : Don Baldridge

Unique Number : 10562956 Test Package : FLEET (Additional Tests: PrtCount) 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)

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