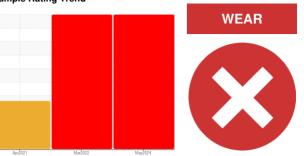


PROBLEM SUMMARY

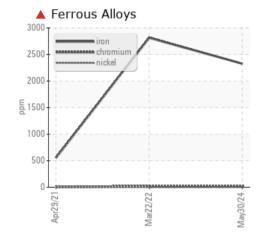
Sample Rating Trend

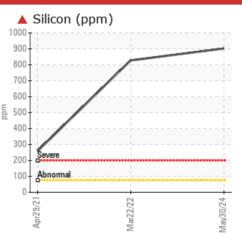


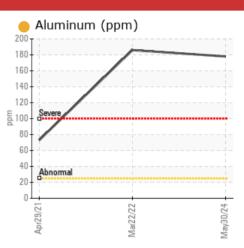
Machine Id

E-158 Component Left Final Drive Fluid 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.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	SEVERE	ABNORMAL	
Iron	ppm	ASTM D5185m	>500	A 2328	▲ 2815	▲ 555	
Chromium	ppm	ASTM D5185m	>10	🔺 15	a 20	5	
Titanium	ppm	ASTM D5185m		<u> </u>	1 1	3	
Silicon	ppm	ASTM D5185m	>75	4 902	& 828	🔺 259	

Customer Id: DUKRAL Sample No.: WC0703797 Lab Number: 06203165 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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

	RECOMM	IENDED	ACTIC	NS
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Action Inspect Wear Source	Status	Date	Done By ?	Description 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



22 Mar 2022 Diag: Jonathan Hester

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 Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.





29 Apr 2021 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.Gear wear is indicated. Moderate concentration of visible dirt/debris present in the oil. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.







OIL ANALYSIS REPORT



Machine Id **E-158** Component Left Final Drive Fluid PHILLIPS 80W90 (--- GAL)

DIAGNOSIS

A 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.

A Wear

Gear wear is indicated.

Contamination

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

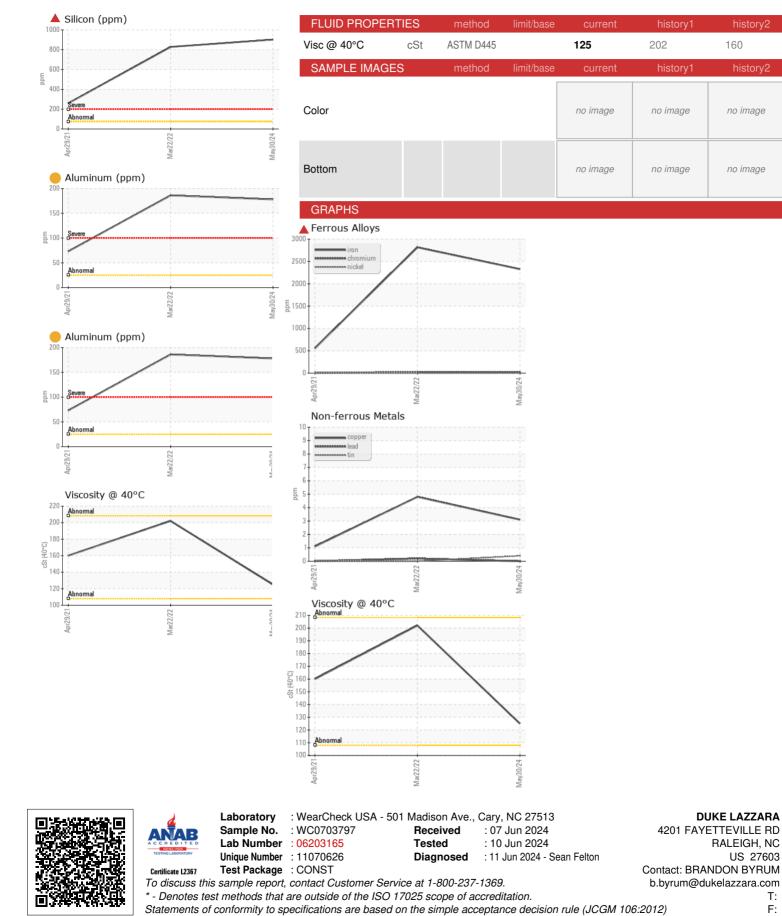
Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0703797	WC0663450	WC0580562
Sample Date		Client Info		30 May 2024	22 Mar 2022	29 Apr 2021
Machine Age	hrs	Client Info		8037	0	3425
Oil Age	hrs	Client Info		1000	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	2328	2 815	▲ 555
Chromium	ppm	ASTM D5185m	>10	<u> </u>	<u> </u>	5
Nickel	ppm	ASTM D5185m	>10	2	<1	2
Titanium	ppm	ASTM D5185m		<u> </u>	1 1	3
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	178	186	73
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>50	3	5	1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m	20	<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
	ppm		11 11 11		-	-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	5	6
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	2	0
Manganese	ppm	ASTM D5185m		18	24	6
Magnesium	ppm	ASTM D5185m		17	38	14
Calcium	ppm	ASTM D5185m		27	124	25
Phosphorus	ppm	ASTM D5185m		97	858	1891
Zinc	ppm	ASTM D5185m		0	25	12
Sulfur	ppm	ASTM D5185m		14682	17994	24636
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	902	▲ 828	a 259
Sodium	ppm	ASTM D5185m		34	19	7
Potassium	ppm	ASTM D5185m	>20	37	28	19
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual	- (NEG	BRANEDON BY	RUMNERUKRAI
						Page 2 of



OIL ANALYSIS REPORT



F: Contact/Location: BRANDON BYRUM - DUKRAL

Page 4 of 4

DUKE LAZZARA

RALEIGH, NC

US 27603

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Report Id: DUKRAL [WUSCAR] 06203165 (Generated: 06/11/2024 16:30:17) Rev: 1