

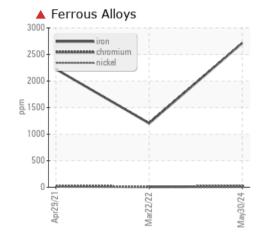
PROBLEM SUMMARY

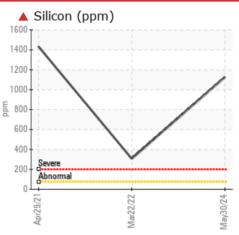
Sample Rating Trend

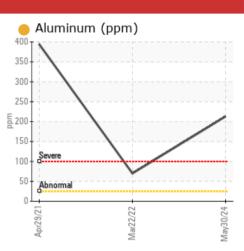


Machine Id **E-158** Component **Right Final Drive** Fluid **PHILLIPS 80W90 (--- GAL)**

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	ABNORMAL	SEVERE	
Iron	ppm	ASTM D5185m	>500	A 2715	<u> </u>	2 224	
Chromium	ppm	ASTM D5185m	>10	 19	10	<u> </u>	
Silicon	ppm	ASTM D5185m	>75	1126	A 307	1 432	

Customer Id: DUKRAL Sample No.: WC0703796 Lab Number: 06203166 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>

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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



22 Mar 2022 Diag: Jonathan Hester

We advise that you check all areas where dirt can enter the system. 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 (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.





29 Apr 2021 Diag: Don Baldridge



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.Moderate concentration of visible metal present. Gear wear is indicated. 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. The oil is no longer serviceable due to the presence of contaminants.





OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id **E-158** Component **Right Final Drive** Fluid **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.

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	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0703796	WC0663449	WC0580563
Sample Date		Client Info		30 May 2024	22 Mar 2022	29 Apr 2021
Machine Age	hrs	Client Info		8037	0	3425
Dil Age	hrs	Client Info		1000	0	0
Dil Changed		Client Info		Changed	N/A	N/A
Sample Status				SEVERE	ABNORMAL	SEVERE
			1	-		-
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	4 2715	1204	2 224
Chromium	ppm	ASTM D5185m	>10	<u> </u>	10	<u> </u>
Nickel	ppm	ASTM D5185m	>10	3	0	8
Titanium	ppm	ASTM D5185m		20	4	22
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<u> </u>	0 70	9394
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	4	2	3
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		<1	<1	1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	2	8
Barium	ppm	ASTM D5185m		1	0	2
Molybdenum	ppm	ASTM D5185m		- <1	1	0
Manganese	ppm	ASTM D5185m		21	11	25
Magnesium	ppm	ASTM D5185m		20	13	81
Calcium	ppm	ASTM D5185m		34	23	110
		ASTM D5185m		105	759	1857
Phosphorus Zinc	ppm	ASTM D5185m		0	3	19
Sulfur	ppm	ASTM D5185m		14865	18289	23529
	ppm					
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	1126	A 307	1 432
Sodium	ppm	ASTM D5185m		46	6	38
Potassium	ppm	ASTM D5185m	>20	42	9	59
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER	🔺 MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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	A 0.2%



OIL ANALYSIS REPORT



Contact/Location: BRANDON BYRUM - DUKRAL

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DUKE LAZZARA

RALEIGH, NC

US 27603

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