

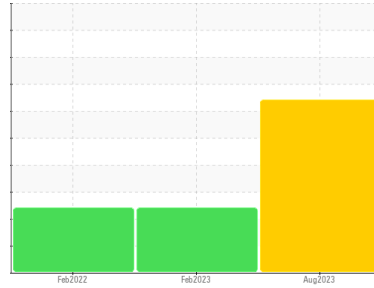


PROBLEM SUMMARY



Area
[18573]
 Machine Id
30-77
 Component
Right Final Drive
 Fluid
CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)

Sample Rating Trend

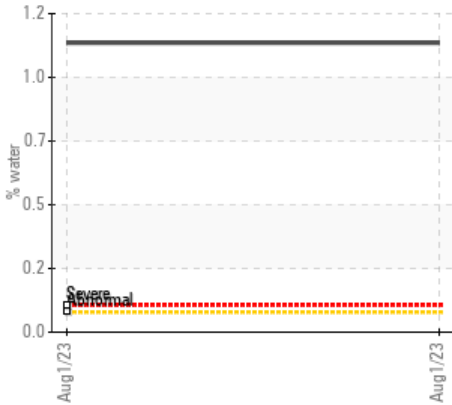


WATER

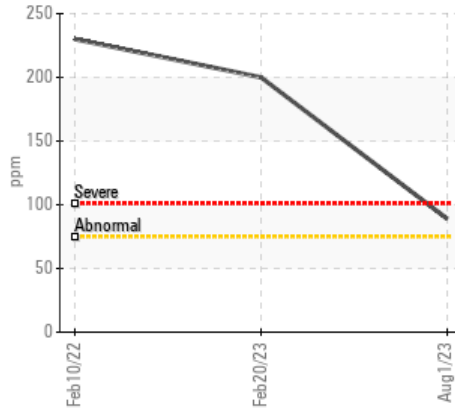


COMPONENT CONDITION SUMMARY

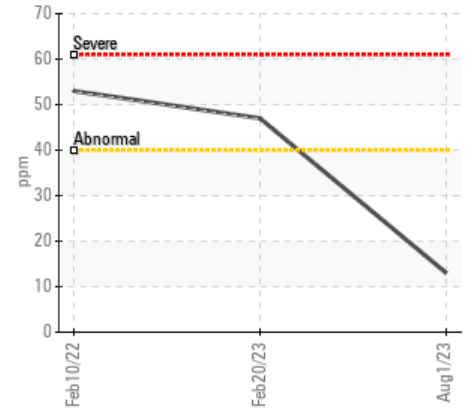
Water



Silicon (ppm)



Aluminum (ppm)



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
Aluminum	ppm	ASTM D5185m	>40	▲ 13	▲ 47	▲ 53
Silicon	ppm	ASTM D5185m	>75	▲ 89	▲ 200	▲ 230
Water	%	ASTM D6304	>0.075	● 1.09	---	---
ppm Water	ppm	ASTM D6304	>750	● 10900	---	---
Appearance	scalar	*Visual	NORML	▲ MILKY	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	● 0.2%	NEG	NEG

Customer Id: MANTUL
 Sample No.: WC0802433
 Lab Number: 05928979
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +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
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component.
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.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

20 Feb 2023 Diag: Don Baldrige

DIRT



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 recommend an early resample to monitor this condition. All component wear rates are normal. 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.

view report



10 Feb 2022 Diag: Doug Bogart

DIRT



We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. All component wear rates are normal. 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.

view report





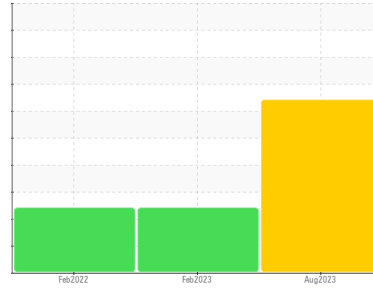
OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area
[18573]
 Machine Id
30-77
 Component
Right Final Drive
 Fluid
CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0802433	WC0754825	WC0619423
Sample Date	Client Info		01 Aug 2023	20 Feb 2023	10 Feb 2022
Machine Age	hrs	Client Info	3625	3080	2577
Oil Age	hrs	Client Info	545	1080	2329
Oil Changed	Client Info		Not Chngd	Changed	N/A
Sample Status			SEVERE	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >750	427	525	505
Chromium	ppm	ASTM D5185m >9	4	6	6
Nickel	ppm	ASTM D5185m >10	1	2	<1
Titanium	ppm	ASTM D5185m	1	2	2
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >40	▲ 13	▲ 47	▲ 53
Lead	ppm	ASTM D5185m >15	<1	<1	<1
Copper	ppm	ASTM D5185m >40	<1	1	<1
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	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 85	54	161	179
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	2	3	3
Manganese	ppm	ASTM D5185m	7	10	10
Magnesium	ppm	ASTM D5185m 350	8	12	11
Calcium	ppm	ASTM D5185m 1800	65	158	227
Phosphorus	ppm	ASTM D5185m 1000	307	946	1052
Zinc	ppm	ASTM D5185m 1100	29	112	117
Sulfur	ppm	ASTM D5185m 3500	20101	18783	17463

CONTAMINANTS

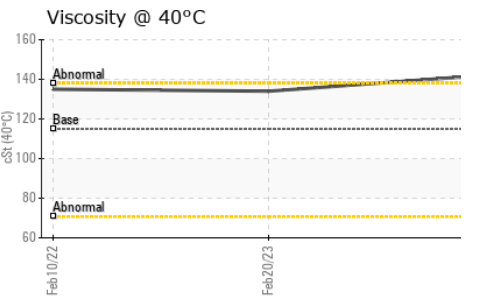
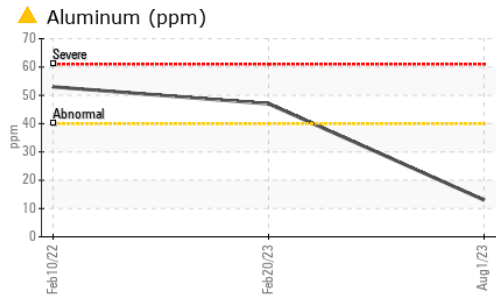
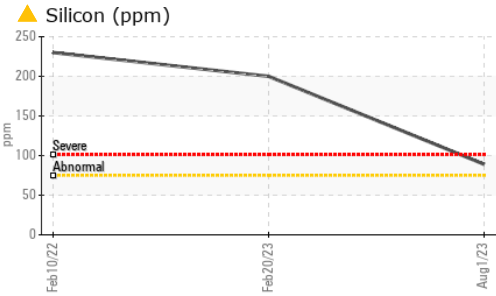
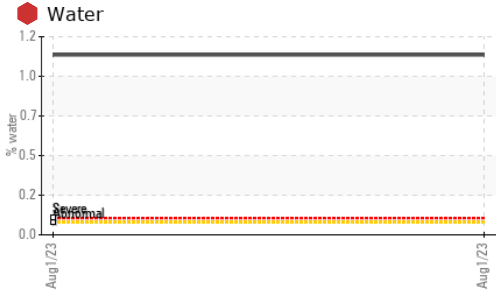
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 89	▲ 200	▲ 230
Sodium	ppm	ASTM D5185m >51	5	7	6
Potassium	ppm	ASTM D5185m >20	6	18	19
Water	%	ASTM D6304 >0.075	● 1.09	---	---
ppm Water	ppm	ASTM D6304 >750	● 10900	---	---

VISUAL



	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	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	▲ MILKY	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.075	● 0.2%	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG



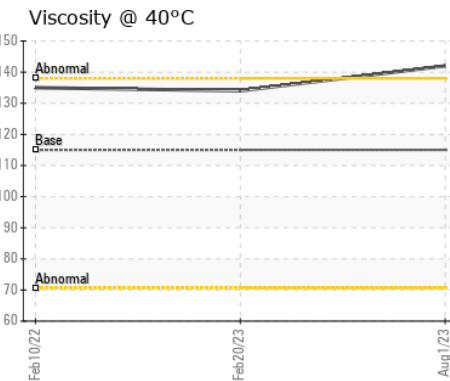
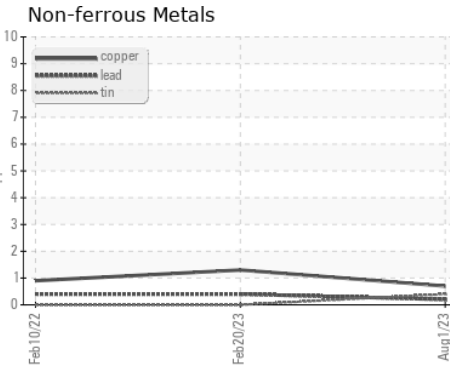
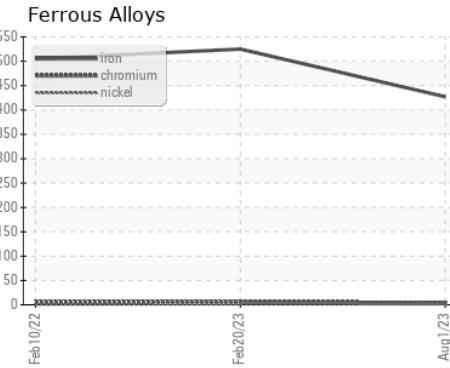
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	115	142	134	135

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0802433 **Received** : 18 Aug 2023
Lab Number : 05928979 **Diagnosed** : 22 Aug 2023
Unique Number : 10608926 **Diagnostician** : Don Baldrige
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)

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