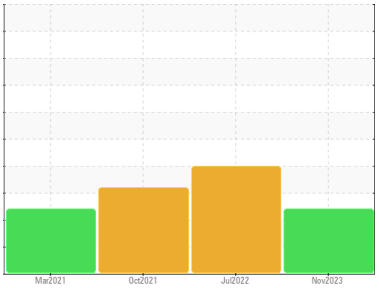
PROBLEM SUMMARY

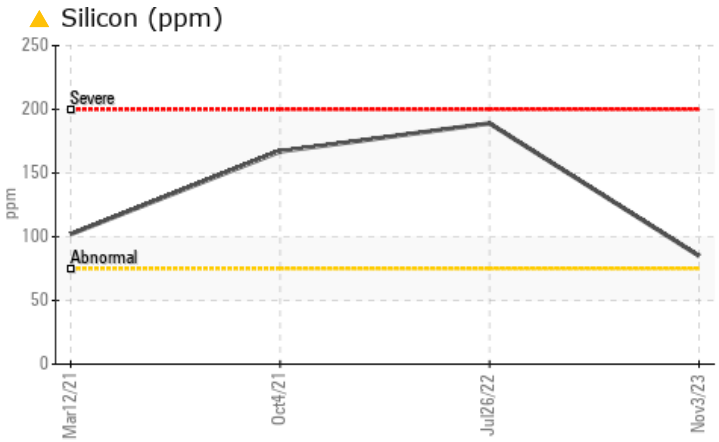
Sample Rating Trend

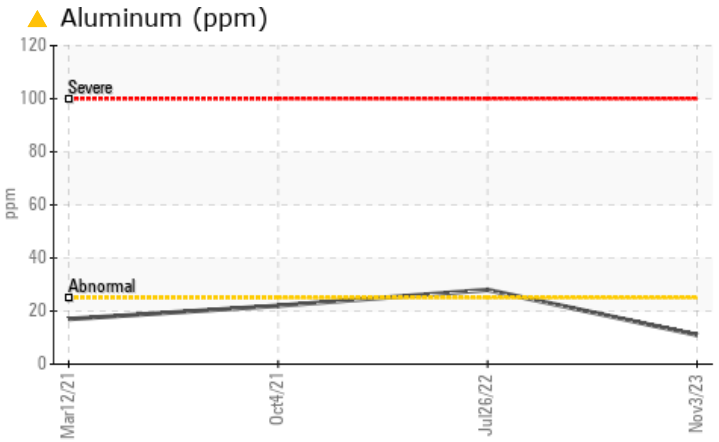


DIRT

Area
[20024]
Machine Id
40-156
Component
Left Final Drive
Fluid
CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Aluminum	ppm	ASTM D5185m	>25	▲ **11**	▲ 28	▲ 22
Silicon	ppm	ASTM D5185m	>75	▲ **85**	▲ 189	▲ 167

Customer Id: MANTUL
Sample No.: WC0836239
Lab Number: 06010096
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
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

26 Jul 2022 Diag: Angela Borella

DIRT

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.The iron level is abnormal. 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.

view report

04 Oct 2021 Diag: Don Baldridge

DIRT

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.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.

view report

12 Mar 2021 Diag: Don Baldridge

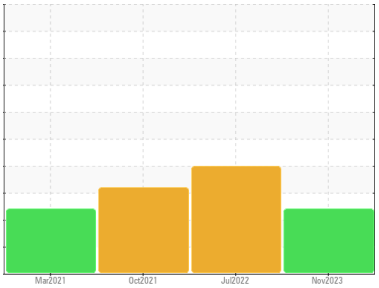
DIRT

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.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



DIRT

Area
[20024]
Machine Id
40-156
Component
Left Final Drive
Fluid
CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

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

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		**WC0836239**	WC0601695	WC0601640
Sample Date		Client Info		**03 Nov 2023**	26 Jul 2022	04 Oct 2021
Machine Age	hrs	Client Info		**5912**	5007	4477
Oil Age	hrs	Client Info		**905**	1029	500
Oil Changed		Client Info		**Not Changd**	Changed	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		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	**359**	▲ 790	▲ 639
Chromium	ppm	ASTM D5185m	>10	**6**	▲ 12	10
Nickel	ppm	ASTM D5185m	>10	**4**	5	5
Titanium	ppm	ASTM D5185m		**1**	2	2
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ **11**	▲ 28	▲ 22
Lead	ppm	ASTM D5185m	>25	**0**	0	<1
Copper	ppm	ASTM D5185m	>50	**0**	2	2
Tin	ppm	ASTM D5185m	>10	**0**	0	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	0
Vanadium	ppm	ASTM D5185m		**<1**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

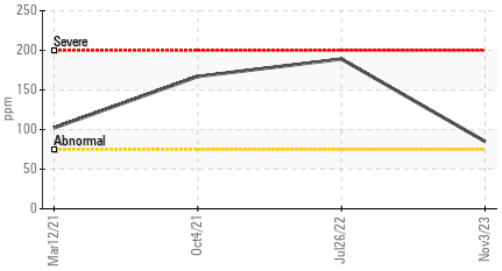
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	**70**	16	24
Barium	ppm	ASTM D5185m		**3**	6	8
Molybdenum	ppm	ASTM D5185m		**2**	<1	0
Manganese	ppm	ASTM D5185m		**4**	9	7
Magnesium	ppm	ASTM D5185m	350	**461**	27	32
Calcium	ppm	ASTM D5185m	1800	**873**	166	188
Phosphorus	ppm	ASTM D5185m	1000	**823**	319	326
Zinc	ppm	ASTM D5185m	1100	**801**	118	121
Sulfur	ppm	ASTM D5185m	3500	**8093**	15967	23841

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **85**	▲ 189	▲ 167
Sodium	ppm	ASTM D5185m		**0**	3	3
Potassium	ppm	ASTM D5185m	>20	**5**	11	23

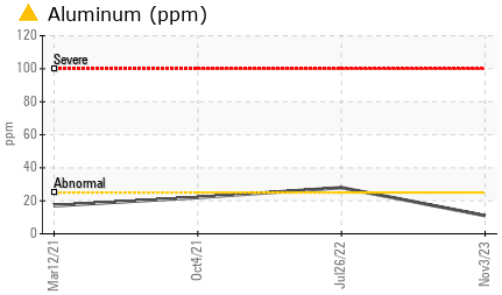
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	MODER	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

OIL ANALYSIS REPORT

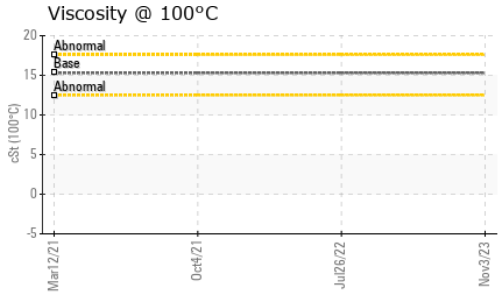
Silicon (ppm)



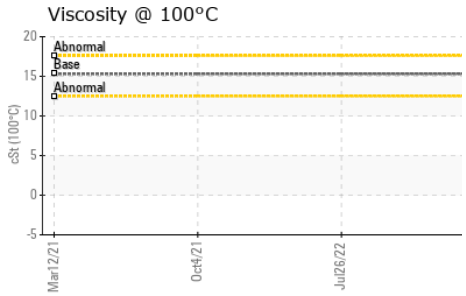
Aluminum (ppm)



Viscosity @ 100°C



Viscosity @ 100°C

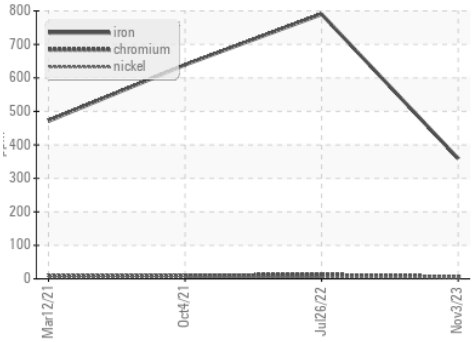


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	115	**92.01**	140	142

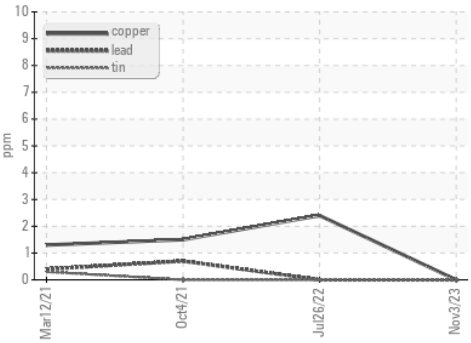
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

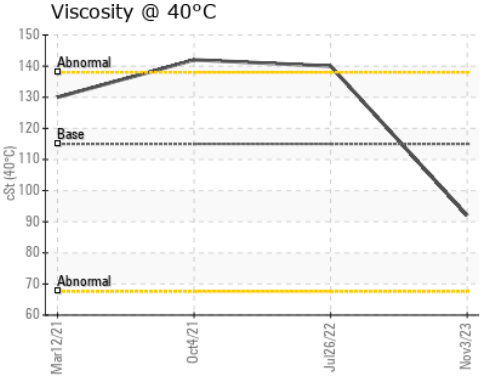
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0836239 **Received** : 16 Nov 2023
Lab Number : 06010096 **Diagnosed** : 30 Nov 2023
Unique Number : 10749240 **Diagnostician** : Doug Bogart
Test Package : CONST (Additional Tests: FT-IR, KV100)

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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