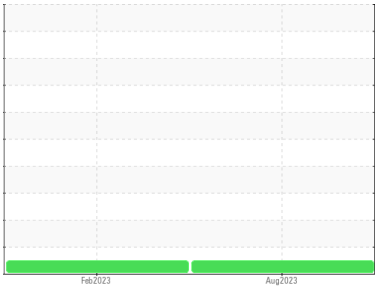
OIL ANALYSIS REPORT

Area
[18082]
Machine Id
40-209
Component
Swing Drive
Fluid
ConocoPhillips 80w/90 (--- GAL)

Sample Rating Trend



NORMAL

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. (Customer Sample Comment: ConocoPhillips gear oil 80w/90)

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination 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		**WC0793333**	WC0754769	---
Sample Date		Client Info		**10 Aug 2023**	10 Feb 2023	---
Machine Age	hrs	Client Info		**3154**	2618	---
Oil Age	hrs	Client Info		**536**	618	---
Oil Changed		Client Info		**Changed**	Not Changd	---
Sample Status				**NORMAL**	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>151	**32**	26	---
Chromium	ppm	ASTM D5185m	>11	**0**	<1	---
Nickel	ppm	ASTM D5185m	>10	**0**	<1	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>21	**0**	<1	---
Lead	ppm	ASTM D5185m	>51	**0**	0	---
Copper	ppm	ASTM D5185m	>51	**<1**	<1	---
Tin	ppm	ASTM D5185m	>10	**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

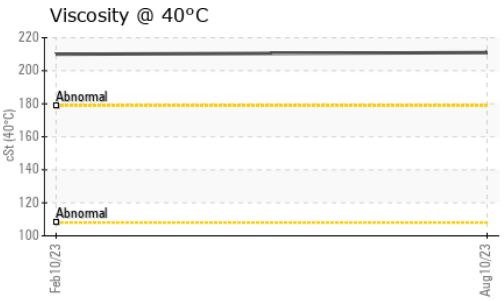
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**192**	208	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	<1	---
Manganese	ppm	ASTM D5185m		**<1**	<1	---
Magnesium	ppm	ASTM D5185m		**7**	6	---
Calcium	ppm	ASTM D5185m		**20**	20	---
Phosphorus	ppm	ASTM D5185m		**784**	791	---
Zinc	ppm	ASTM D5185m		**8**	16	---
Sulfur	ppm	ASTM D5185m		**23298**	22454	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>31	**5**	3	---
Sodium	ppm	ASTM D5185m	>51	**<1**	2	---
Potassium	ppm	ASTM D5185m	>20	**1**	1	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

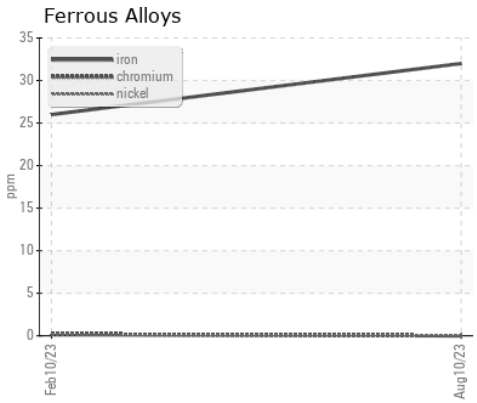
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**211**	210	---

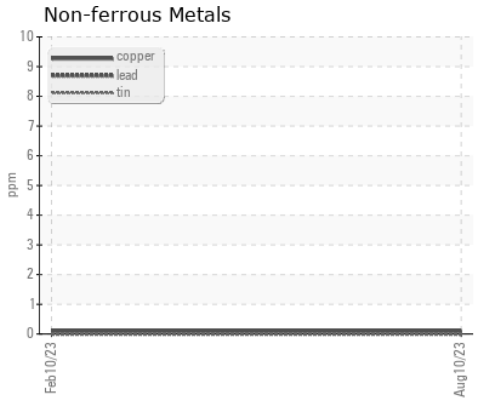
OIL ANALYSIS REPORT

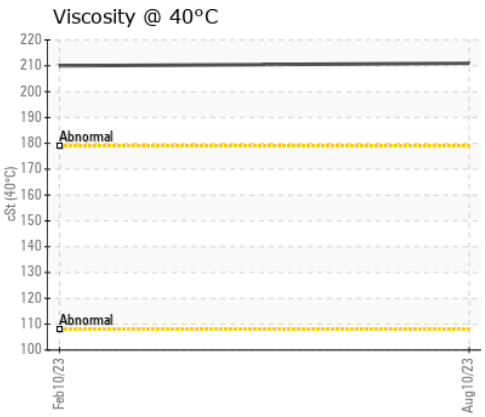


SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS







Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: WC0793333	**Received**	: 18 Aug 2023
Lab Number	: 05928980	**Diagnosed**	: 22 Aug 2023
Unique Number	: 10608927	**Diagnostician**	: Don Baldridge
Test Package	: CONST		

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)

MANHATTAN ROAD AND BRIDGE
5601 S 122ND E AVE
TULSA, OK
US 74146
Contact: JAMES STEELMON
james.steelmon@manhattanrb.com
T:
F: