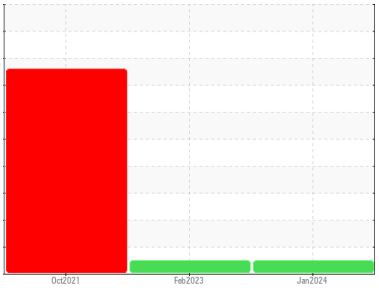
OIL ANALYSIS REPORT

Area
[21055]
Machine Id
53-03
Component
Middle Differential
Fluid
ConocoPhillips power tran oil (--- GAL)

Sample Rating Trend



NORMAL

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. (Customer Sample Comment: ConocoPhillips power Tran)

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		**WC0836256**	WC0754862	WC0601580
Sample Date		Client Info		**11 Jan 2024**	10 Feb 2023	13 Oct 2021
Machine Age	hrs	Client Info		**5912**	5395	4433
Oil Age	hrs	Client Info		**1500**	964	2000
Oil Changed		Client Info		**Not Changd**	Not Changd	Changed
Sample Status				**NORMAL**	NORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**88**	17	▲ 631
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	4
Nickel	ppm	ASTM D5185m	>10	**<1**	0	4
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	<1	0
Aluminum	ppm	ASTM D5185m	>25	**2**	<1	3
Lead	ppm	ASTM D5185m	>25	**0**	0	1
Copper	ppm	ASTM D5185m	>100	**73**	0	⬢ 980
Tin	ppm	ASTM D5185m	>10	**<1**	0	▲ 12
Antimony	ppm	ASTM D5185m	>5	**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**110**	25	36
Barium	ppm	ASTM D5185m		**8**	<1	1
Molybdenum	ppm	ASTM D5185m		**2**	0	8
Manganese	ppm	ASTM D5185m		**1**	<1	13
Magnesium	ppm	ASTM D5185m		**23**	<1	75
Calcium	ppm	ASTM D5185m		**3088**	4	3432
Phosphorus	ppm	ASTM D5185m		**1097**	86	1014
Zinc	ppm	ASTM D5185m		**1288**	<1	1178
Sulfur	ppm	ASTM D5185m		**4176**	8608	3033

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**19**	5	11
Sodium	ppm	ASTM D5185m		**0**	20	4
Potassium	ppm	ASTM D5185m	>20	**2**	10	4

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	VLITE
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	>.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

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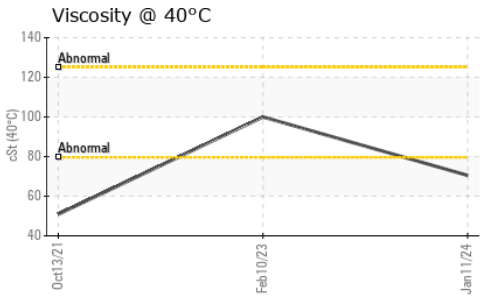
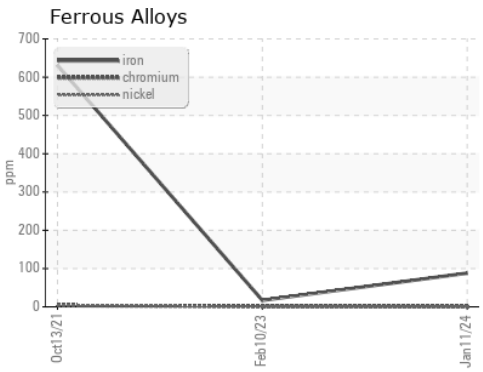
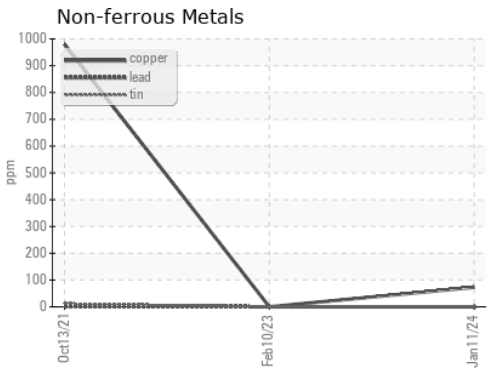


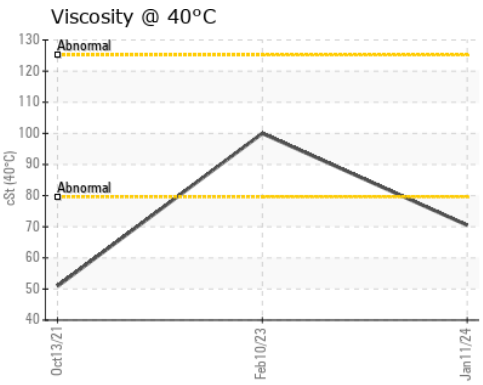
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**70.5**	100	50.9

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. : WC0836256
Lab Number : 06077855
Unique Number : 10859946
Test Package : CONST

Received : 01 Feb 2024
Tested : 02 Feb 2024
Diagnosed : 04 Feb 2024 - Don Baldridge

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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