



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

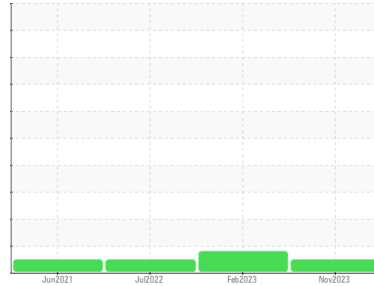


Area
[20126]

Machine Id
57-02

Component
Rear Axle

Fluid
CONOCOPHILLIPS POWERTRAN (--- GAL)



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		WC0836108	WC0754822	WC0619351
Sample Date	Client Info		06 Nov 2023	17 Feb 2023	22 Jul 2022
Machine Age	hrs	Client Info	8657	8084	7549
Oil Age	hrs	Client Info	573	1072	298
Oil Changed	Client Info		Not Chngd	Changed	N/A
Sample Status			NORMAL	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >750	175	21	6
Chromium	ppm	ASTM D5185m >11	<1	<1	0
Nickel	ppm	ASTM D5185m >10	<1	<1	0
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >21	3	2	<1
Lead	ppm	ASTM D5185m >49	2	<1	<1
Copper	ppm	ASTM D5185m >101	26	5	2
Tin	ppm	ASTM D5185m >10	3	0	<1
Antimony	ppm	ASTM D5185m >5	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	81	100	116
Barium	ppm	ASTM D5185m	4	0	0
Molybdenum	ppm	ASTM D5185m	1	1	2
Manganese	ppm	ASTM D5185m	2	<1	<1
Magnesium	ppm	ASTM D5185m	43	20	19
Calcium	ppm	ASTM D5185m	3287	3097	3280
Phosphorus	ppm	ASTM D5185m	1010	1066	1078
Zinc	ppm	ASTM D5185m	830	1324	1407
Sulfur	ppm	ASTM D5185m	3233	3532	4138

CONTAMINANTS

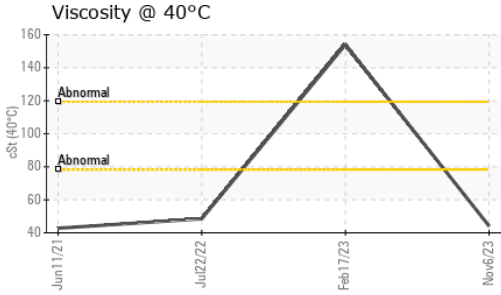
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >31	13	8	7
Sodium	ppm	ASTM D5185m >51	5	4	5
Potassium	ppm	ASTM D5185m >20	2	2	0

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
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	▲ MODER	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 >0.1	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	mitted	mitted



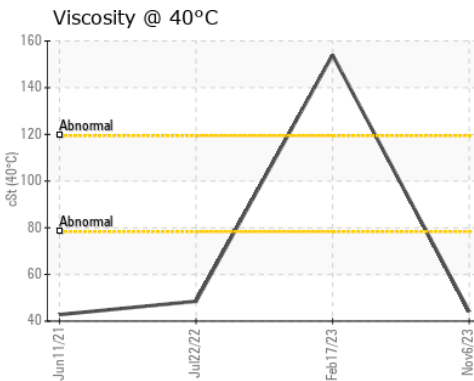
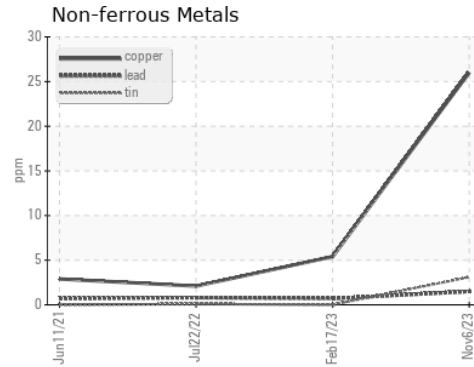
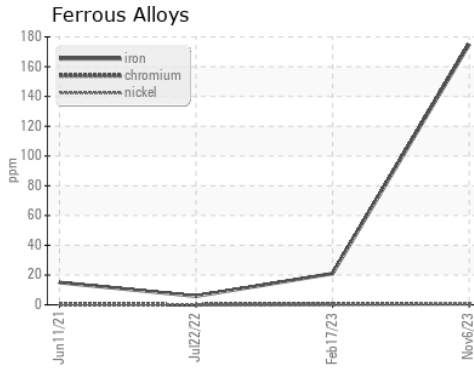
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.1	▲ 154	48.5

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. : WC0836108 **Received** : 16 Nov 2023
Lab Number : 06010415 **Diagnosed** : 20 Nov 2023
Unique Number : 10749559 **Diagnostician** : Sean Felton
Test Package : CONST

MANHATTAN ROAD AND BRIDGE
 5601 S 122ND E AVE
 TULSA, OK
 US 74146
 Contact: WILL ANDERSON
 will.anderson@manhattanrb.com

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)

T:
F: