

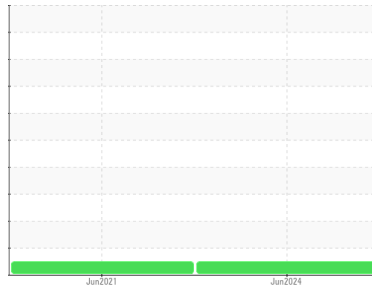


OIL ANALYSIS REPORT



Area
[23534]
 Machine Id
5065
 Component
Front Right Final Drive
 Fluid
CONOCO PHILLIPS 80W90 (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation
 Resample at the next service interval to monitor. (Customer Sample Comment: ConocoPhillips mp 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			WC0940690	WC0548793	---
Sample Date	Client Info			18 Jun 2024	04 Jun 2021	---
Machine Age	hrs Client Info			2635	2020	---
Oil Age	hrs Client Info			635	1000	---
Oil Changed	Client Info			Not Chngd	Changed	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.075	NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>750	114	282	---
Chromium	ppm	ASTM D5185m	>9	1	3	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>40	3	7	---
Lead	ppm	ASTM D5185m	>15	<1	<1	---
Copper	ppm	ASTM D5185m	>40	7	17	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Antimony	ppm	ASTM D5185m	>5	---	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		<1	0	---

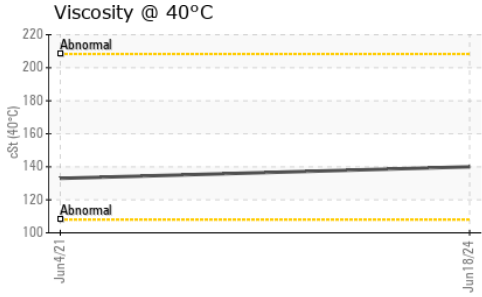
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6	33	---
Barium	ppm	ASTM D5185m		1	0	---
Molybdenum	ppm	ASTM D5185m		21	82	---
Manganese	ppm	ASTM D5185m		2	4	---
Magnesium	ppm	ASTM D5185m		4	4	---
Calcium	ppm	ASTM D5185m		13	15	---
Phosphorus	ppm	ASTM D5185m		369	562	---
Zinc	ppm	ASTM D5185m		15	28	---
Sulfur	ppm	ASTM D5185m		18241	16113	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	5	11	---
Sodium	ppm	ASTM D5185m	>51	0	2	---
Potassium	ppm	ASTM D5185m	>20	2	1	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE	---
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	>0.075	NEG	NEG	---
Free Water	scalar	*Visual		NEG	NEG	---



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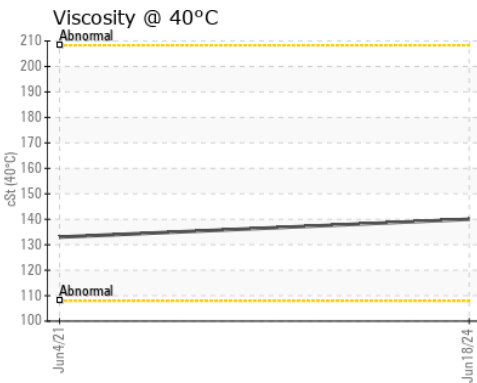
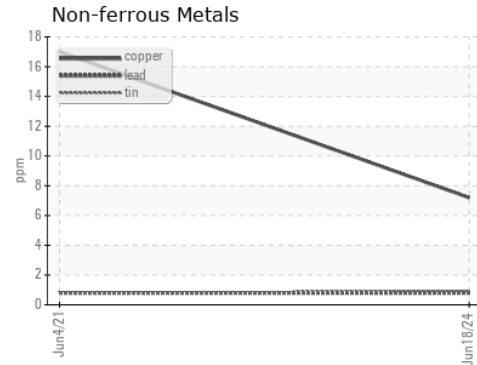
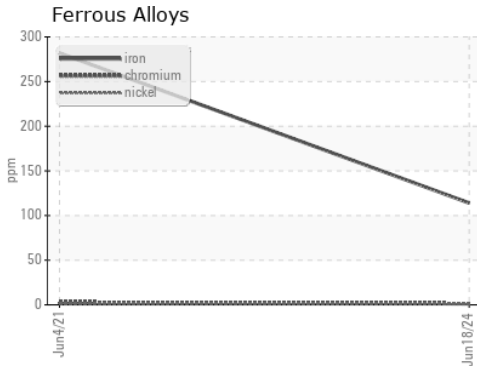


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	140	133	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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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. : WC0940690 **Received** : 24 Jun 2024
Lab Number : **06218600** **Tested** : 25 Jun 2024
Unique Number : 11096797 **Diagnosed** : 26 Jun 2024 - 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)

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F: