

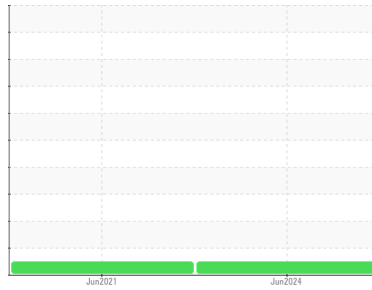


OIL ANALYSIS REPORT



Area
[23534]
 Machine Id
5065
 Component
Front Left Final Drive
 Fluid
CONOCO PHILLIPS 80W90 MP (--- 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			WC0940691	WC0548790	---
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	111	366	---
Chromium	ppm	ASTM D5185m	>9	1	4	---
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	9	---
Lead	ppm	ASTM D5185m	>15	<1	<1	---
Copper	ppm	ASTM D5185m	>40	6	22	---
Tin	ppm	ASTM D5185m	>10	<1	1	---
Antimony	ppm	ASTM D5185m	>5	---	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		<1	0	---

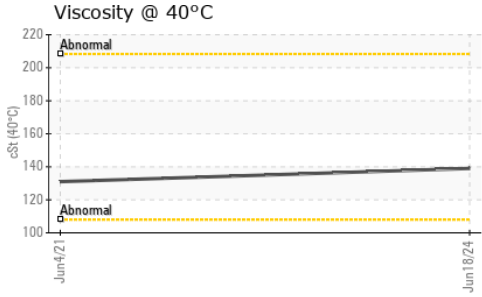
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6	38	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		23	105	---
Manganese	ppm	ASTM D5185m		1	5	---
Magnesium	ppm	ASTM D5185m		4	4	---
Calcium	ppm	ASTM D5185m		0	16	---
Phosphorus	ppm	ASTM D5185m		386	644	---
Zinc	ppm	ASTM D5185m		9	34	---
Sulfur	ppm	ASTM D5185m		18065	16940	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	5	13	---
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	MODER	---
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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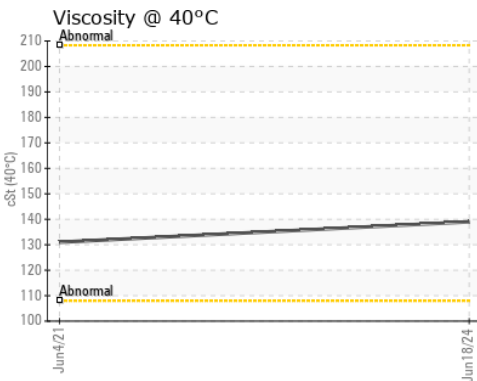
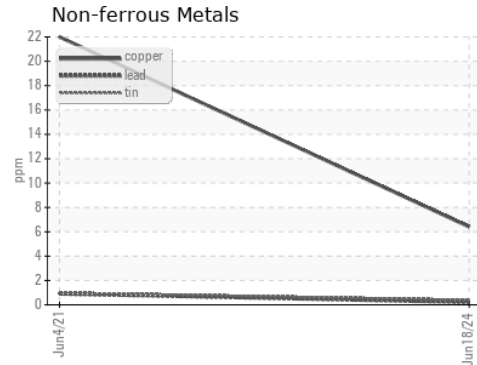
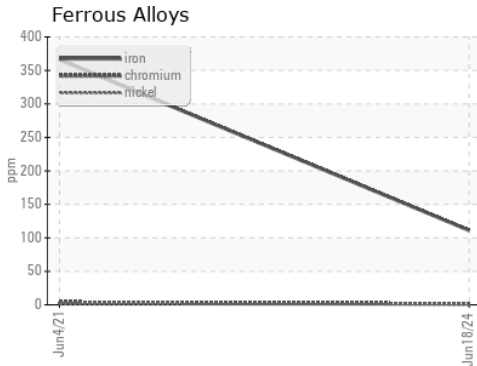


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	139	131	---

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. : WC0940691
Lab Number : 06220080
Unique Number : 11098277
Test Package : CONST

Received : 25 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 27 Jun 2024 - Sean Felton

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: