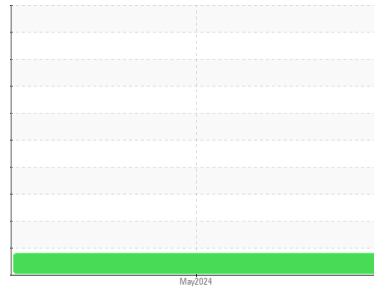




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
TULSA [22921]

Machine Id
80-257

Component
Front Left Final Drive

Fluid
CONOCO PHILLIPS 80W90 MP (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: ConocoPhillips 80w/90 mp gear oil)

Wear

The copper level is abnormal. All other 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	WC0923318	---	---
Sample Date	Client Info	16 May 2024	---	---
Machine Age	hrs Client Info	5477	---	---
Oil Age	hrs Client Info	2000	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	79	---	---
Chromium	ppm ASTM D5185m >10	<1	---	---
Nickel	ppm ASTM D5185m >10	0	---	---
Titanium	ppm ASTM D5185m	0	---	---
Silver	ppm ASTM D5185m	0	---	---
Aluminum	ppm ASTM D5185m >25	<1	---	---
Lead	ppm ASTM D5185m >25	<1	---	---
Copper	ppm ASTM D5185m >50	▲ 124	---	---
Tin	ppm ASTM D5185m >10	8	---	---
Vanadium	ppm ASTM D5185m	0	---	---
Cadmium	ppm ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	106	---	---
Barium	ppm ASTM D5185m	0	---	---
Molybdenum	ppm ASTM D5185m	0	---	---
Manganese	ppm ASTM D5185m	1	---	---
Magnesium	ppm ASTM D5185m	11	---	---
Calcium	ppm ASTM D5185m	2794	---	---
Phosphorus	ppm ASTM D5185m	997	---	---
Zinc	ppm ASTM D5185m	1125	---	---
Sulfur	ppm ASTM D5185m	7883	---	---

CONTAMINANTS

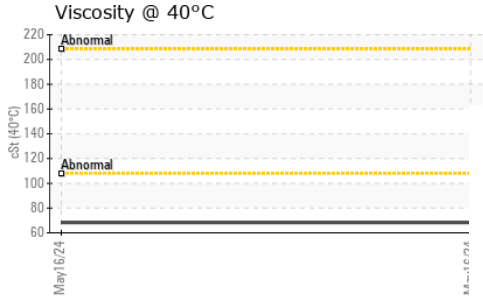
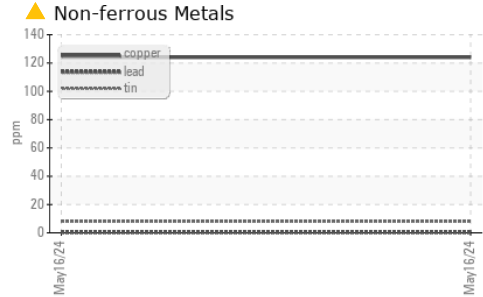
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	16	---	---
Sodium	ppm ASTM D5185m	6	---	---
Potassium	ppm ASTM D5185m >20	0	---	---

VISUAL

method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	NONE	---	---
Yellow Metal	scalar *Visual NONE	NONE	---	---
Precipitate	scalar *Visual NONE	NONE	---	---
Silt	scalar *Visual NONE	NONE	---	---
Debris	scalar *Visual NONE	NONE	---	---
Sand/Dirt	scalar *Visual NONE	NONE	---	---
Appearance	scalar *Visual NORML	NORML	---	---
Odor	scalar *Visual NORML	NORML	---	---
Emulsified Water	scalar *Visual >0.2	NEG	---	---
Free Water	scalar *Visual	NEG	---	---



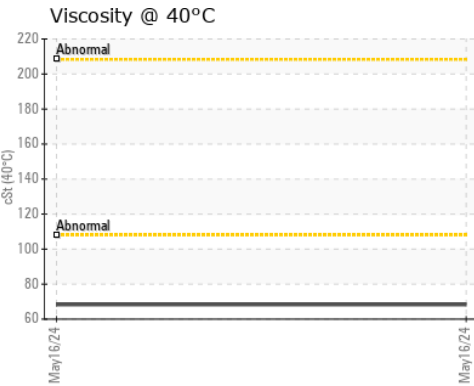
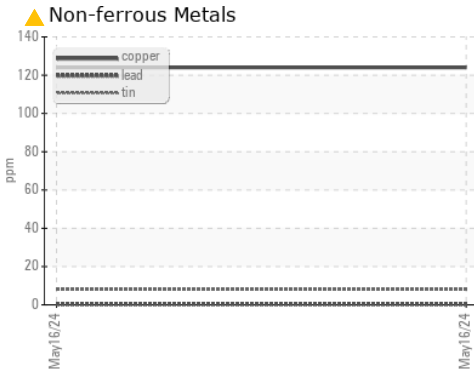
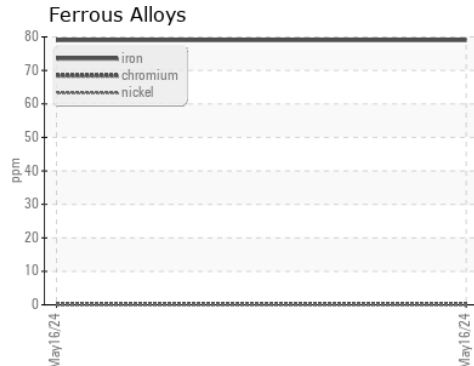
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68.3	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0923318 **Received** : 11 Jun 2024
Lab Number : **06207224** **Tested** : 13 Jun 2024
Unique Number : 11074685 **Diagnosed** : 13 Jun 2024 - Angela Borella
Test Package : CONST

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