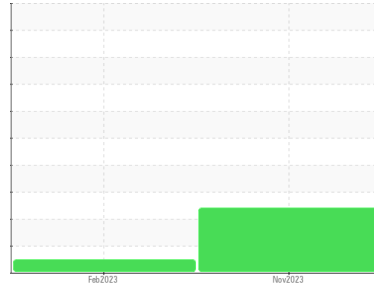




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
[20136]
 Machine Id
40205L

Component
Swing Drive
 Fluid
ConocoPhillips 80w/90 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: ConocoPhillips 80w/90 gear oil)

Wear

All component wear rates are normal.

Contamination

There is a light concentration of water present 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		WC0836190	WC0754854	---
Sample Date	Client Info		17 Nov 2023	13 Feb 2023	---
Machine Age	hrs	Client Info	3463	2930	---
Oil Age	hrs	Client Info	532	999	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			ABNORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >151	▲ 172	30	---
Chromium	ppm	ASTM D5185m >11	3	0	---
Nickel	ppm	ASTM D5185m >10	<1	0	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >21	<1	0	---
Lead	ppm	ASTM D5185m >51	<1	0	---
Copper	ppm	ASTM D5185m >51	<1	0	---
Tin	ppm	ASTM D5185m >10	<1	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	<1	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	34	209	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	<1	0	---
Manganese	ppm	ASTM D5185m	3	1	---
Magnesium	ppm	ASTM D5185m	8	0	---
Calcium	ppm	ASTM D5185m	48	13	---
Phosphorus	ppm	ASTM D5185m	409	843	---
Zinc	ppm	ASTM D5185m	17	0	---
Sulfur	ppm	ASTM D5185m	17688	22192	---

CONTAMINANTS

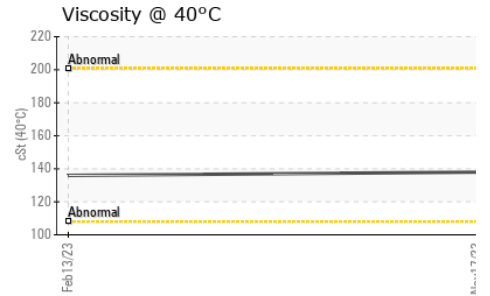
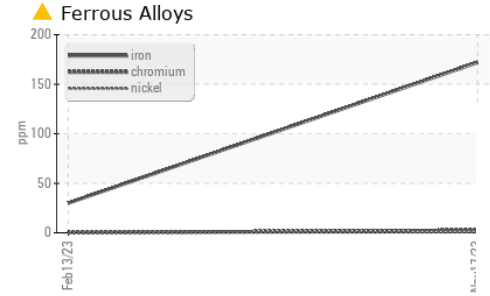
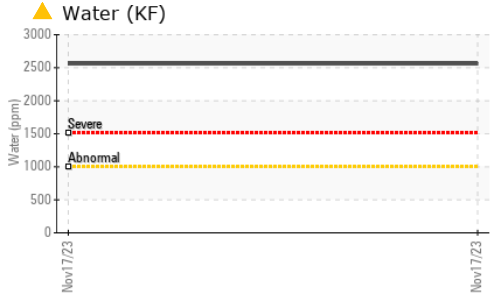
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >31	5	4	---
Sodium	ppm	ASTM D5185m >51	0	<1	---
Potassium	ppm	ASTM D5185m >20	4	0	---
Water	%	ASTM D6304 >0.1	▲ 0.256	---	---
ppm Water	ppm	ASTM D6304 >1000	▲ 2560	---	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	---
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 >0.1	0.2%	NEG	---
Free Water	scalar	*Visual	NEG	NEG	---



OIL ANALYSIS REPORT

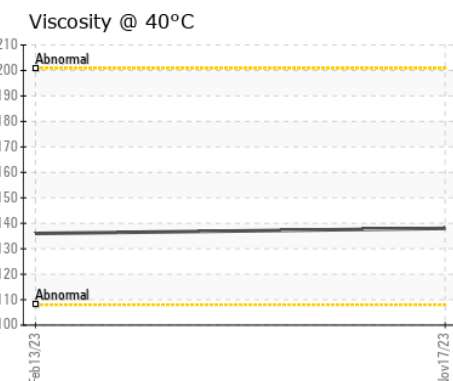
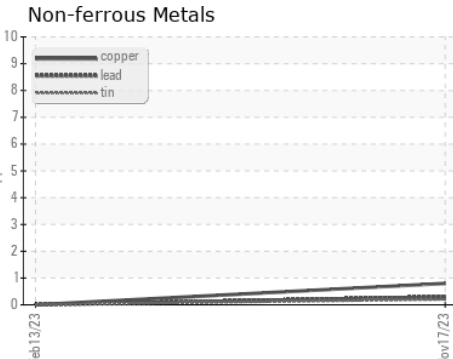
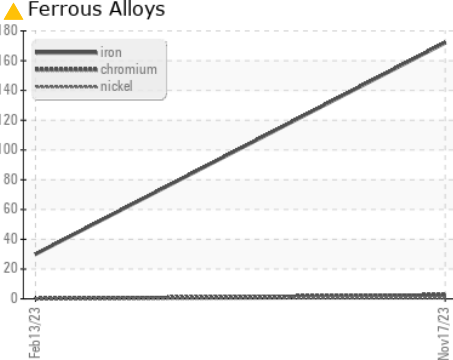


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	138	136	---

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. : WC0836190 **Received** : 01 Feb 2024
Lab Number : 06077887 **Tested** : 05 Feb 2024
Unique Number : 10859978 **Diagnosed** : 05 Feb 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KF)

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: