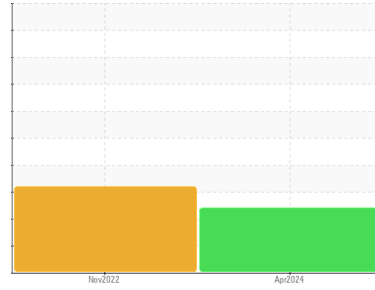




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
HC2226
 Component
2 Winch
 Fluid
GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. There is a trace of moisture 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			WC0922173	WC0720429	---
Sample Date	Client Info			13 Apr 2024	10 Nov 2022	---
Machine Age	hrs	Client Info		8369	6706	---
Oil Age	hrs	Client Info		926	0	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				ATTENTION	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	143	81	---
Chromium	ppm	ASTM D5185m	>10	1	2	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	<1	---
Aluminum	ppm	ASTM D5185m	>5	4	<1	---
Lead	ppm	ASTM D5185m	>15	<1	5	---
Copper	ppm	ASTM D5185m	>80	2	1	---
Tin	ppm	ASTM D5185m		<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
Cadmium	ppm	ASTM D5185m		<1	<1	---

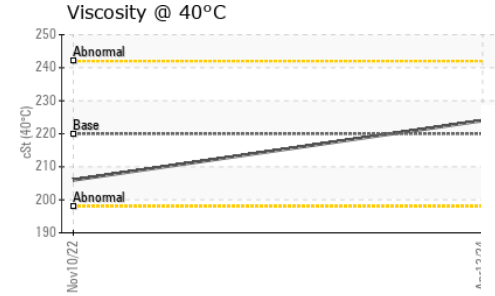
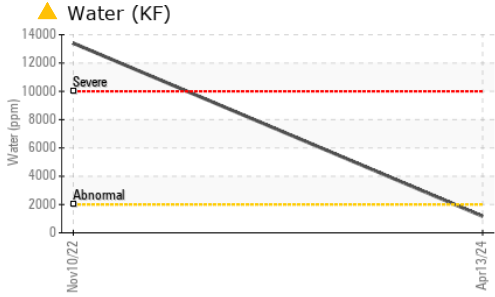
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	2	1	---
Barium	ppm	ASTM D5185m	15	0	0	---
Molybdenum	ppm	ASTM D5185m	15	5	<1	---
Manganese	ppm	ASTM D5185m		3	2	---
Magnesium	ppm	ASTM D5185m	50	11	12	---
Calcium	ppm	ASTM D5185m	50	28	6	---
Phosphorus	ppm	ASTM D5185m	350	351	259	---
Zinc	ppm	ASTM D5185m	100	53	13	---
Sulfur	ppm	ASTM D5185m	12500	4866	126	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	3	---
Sodium	ppm	ASTM D5185m		2	11	---
Potassium	ppm	ASTM D5185m	>20	2	37	---
Water	%	ASTM D6304	>0.2	▲ 0.117	▲ 1.34	---
ppm Water	ppm	ASTM D6304	>2000	▲ 1170	▲ 13400	---

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	MODER	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	HAZY	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	▲ 0.2%	---
Free Water	scalar	*Visual		NEG	NEG	---







OIL ANALYSIS REPORT



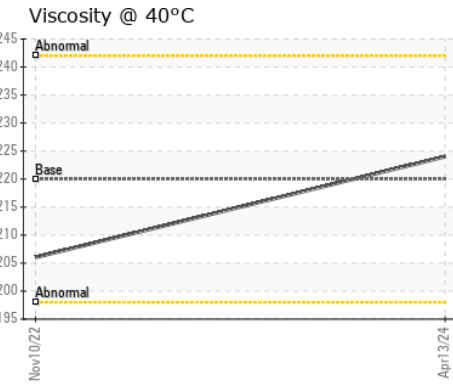
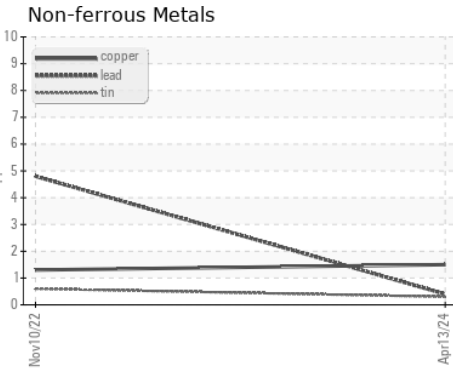
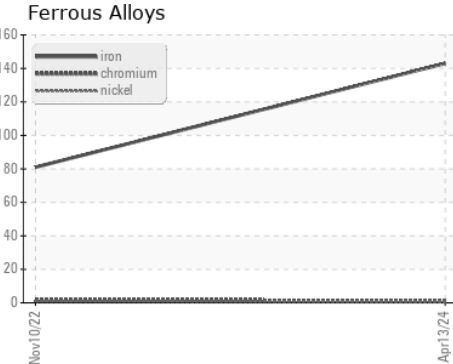
FLUID PROPERTIES

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 220	224	206	---

SAMPLE IMAGES

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0922173 **Received** : 18 Apr 2024
Lab Number : 06153837 **Tested** : 23 Apr 2024
Unique Number : 10989260 **Diagnosed** : 23 Apr 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KF)

BUCKNER - WILLIS
 18123 HWY 75 NORTH
 WILLIS, TX
 US 77378

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: JOHN HAWKINS
 johnh@bucknercompanies.com

* - 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: