



OIL ANALYSIS REPORT

Sample Rating Trend

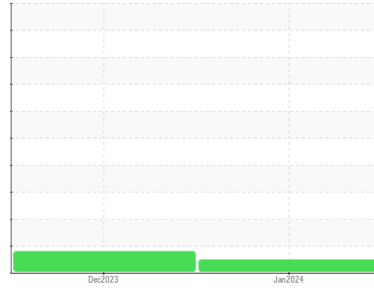
NORMAL



Machine Id
CR-3318

Component
1 Winch

Fluid
GEAR OIL ISO 220 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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		WC0867435	WC0823320	---
Sample Date	Client Info		04 Jan 2024	01 Dec 2023	---
Machine Age	hrs	Client Info	0	12822	---
Oil Age	hrs	Client Info	0	2884	---
Oil Changed	Client Info		Not Changed	Changed	---
Sample Status			NORMAL	ABNORMAL	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	7	▲ 330	---
Chromium	ppm	ASTM D5185m >10	0	2	---
Nickel	ppm	ASTM D5185m >10	0	1	---
Titanium	ppm	ASTM D5185m	0	3	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >5	<1	8	---
Lead	ppm	ASTM D5185m >15	0	1	---
Copper	ppm	ASTM D5185m >80	0	8	---
Tin	ppm	ASTM D5185m	0	<1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<1	2	---
Barium	ppm	ASTM D5185m 15	0	17	---
Molybdenum	ppm	ASTM D5185m 15	0	1	---
Manganese	ppm	ASTM D5185m	<1	4	---
Magnesium	ppm	ASTM D5185m 50	0	15	---
Calcium	ppm	ASTM D5185m 50	8	311	---
Phosphorus	ppm	ASTM D5185m 350	416	847	---
Zinc	ppm	ASTM D5185m 100	2	73	---
Sulfur	ppm	ASTM D5185m 12500	4382	4941	---

CONTAMINANTS

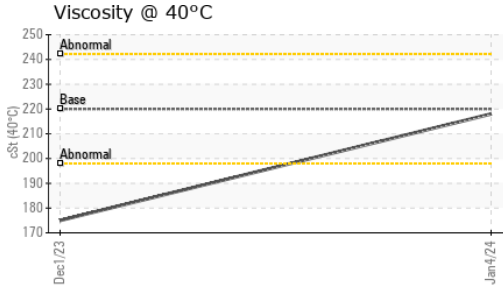
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	3	18	---
Sodium	ppm	ASTM D5185m	0	0	---
Potassium	ppm	ASTM D5185m >20	<1	2	---

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	LAYRD	---
Odor	scalar	*Visual NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual >0.2	NEG	NEG	---
Free Water	scalar	*Visual	NEG	NEG	---



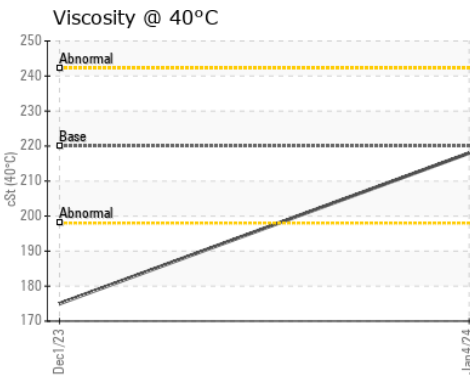
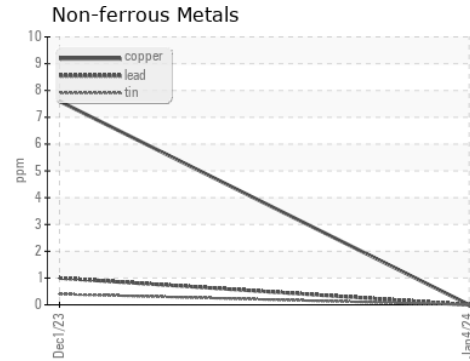
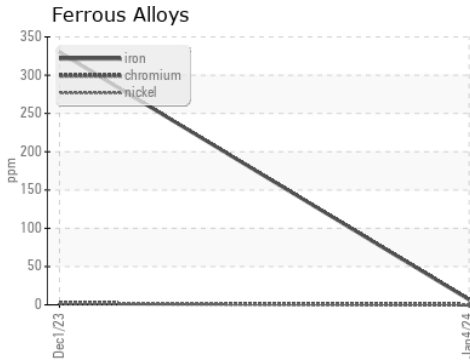
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 220	218	175	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0867435 **Received** : 12 Jan 2024
Lab Number : 06060490 **Diagnosed** : 16 Jan 2024
Unique Number : 10831872 **Diagnostician** : Don Baldrige
Test Package : CONST

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

Contact: JOHN HAWKINS
 johnh@bucknercompanies.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: