



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
CR5503 - 4.1
Component
Winch
Fluid
GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0952004	WC0893062	---
Sample Date		Client Info		14 Jun 2024	29 Jan 2024	---
Machine Age	hrs	Client Info		10882	0	---
Oil Age	hrs	Client Info		740	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Not Changed	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	11	14	---
Chromium	ppm	ASTM D5185m	>10	0	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>5	<1	▲ 10	---
Lead	ppm	ASTM D5185m	>15	0	0	---
Copper	ppm	ASTM D5185m	>80	16	<1	---
Tin	ppm	ASTM D5185m		0	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

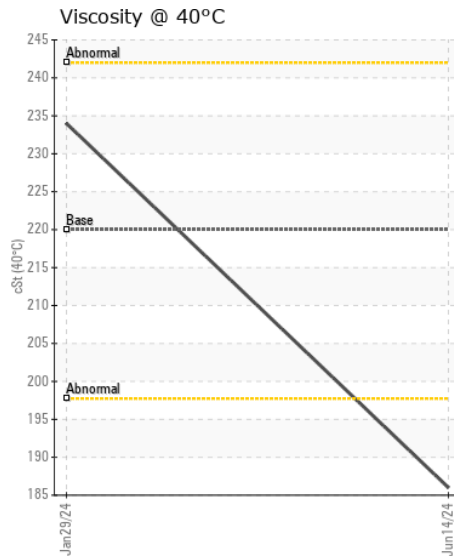
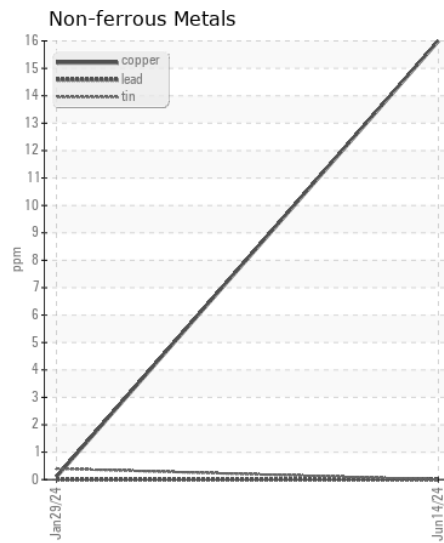
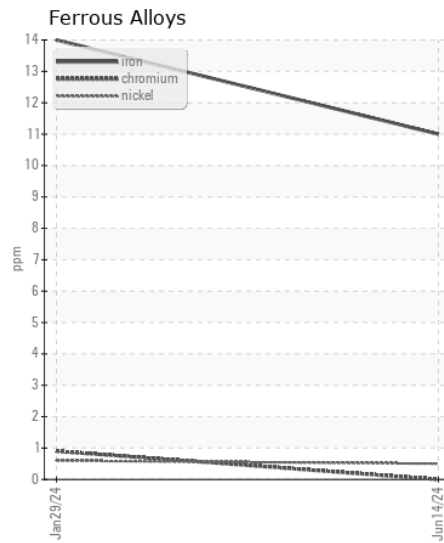
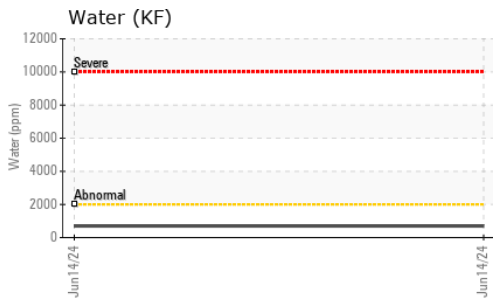
Free water present. There is a high amount of visible silt present in the sample.

Silicon	ppm	ASTM D5185m	>25	<1	2	---
Potassium	ppm	ASTM D5185m	>20	2	6	---
Water	%	ASTM D6304	>0.2	0.070	---	---
ppm Water	ppm	ASTM D6304	>2000	700	---	---
Silt	scalar	*Visual	NONE	▲ HEAVY	MODER	---
Debris	scalar	*Visual	NONE	LIGHT	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	33	---
Boron	ppm	ASTM D5185m	50	5	0	---
Barium	ppm	ASTM D5185m	15	0	0	---
Molybdenum	ppm	ASTM D5185m	15	0	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	50	1	1	---
Calcium	ppm	ASTM D5185m	50	167	4	---
Phosphorus	ppm	ASTM D5185m	350	254	0	---
Zinc	ppm	ASTM D5185m	100	96	0	---
Sulfur	ppm	ASTM D5185m	12500	4541	49	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0952004 **Received** : 24 Jun 2024
Lab Number : 06218950 **Tested** : 26 Jun 2024
Unique Number : 11097147 **Diagnosed** : 26 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KF)

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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)