



OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Area

[New oil 2]

Machine Id

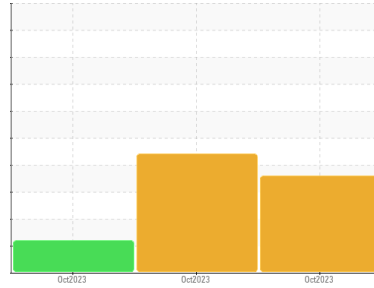
Wire draw machine Richard apex wdo 57

Component

Machining Fluid

Fluid

NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please submit a sample of the new (unused) oil to establish a baseline. (Customer Sample Comment: Richard apex wdo 57)

Wear

Chromium, nickel and iron ppm levels are noted.

Contamination

There is no indication of any contamination in the machining fluid.

Fluid Condition

The AN level is above the recommended limit. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0569647	WC0569646	WC0569648
Sample Date	Client Info		30 Oct 2023	30 Oct 2023	30 Oct 2023
Machine Age	days	Client Info	90	90	90
Oil Age	days	Client Info	0	90	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	▲ 584	▲ 2065	0
Chromium	ppm	ASTM D5185m	▲ 133	▲ 576	0
Nickel	ppm	ASTM D5185m	▲ 37	▲ 243	0
Titanium	ppm	ASTM D5185m	2	▲ 11	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m	0	0	0
Lead	ppm	ASTM D5185m	0	0	0
Copper	ppm	ASTM D5185m	2	9	0
Tin	ppm	ASTM D5185m	0	0	0
Vanadium	ppm	ASTM D5185m	<1	2	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	6	0
Manganese	ppm	ASTM D5185m	16	59	0
Magnesium	ppm	ASTM D5185m	0	<1	0
Calcium	ppm	ASTM D5185m	<1	7	30
Phosphorus	ppm	ASTM D5185m	<1	5	7
Zinc	ppm	ASTM D5185m	1	4	7
Sulfur	ppm	ASTM D5185m	18216	18056	19656

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	3	16	<1
Sodium	ppm	ASTM D5185m	1	4	3
Potassium	ppm	ASTM D5185m >20	2	4	2

FLUID DEGRADATION

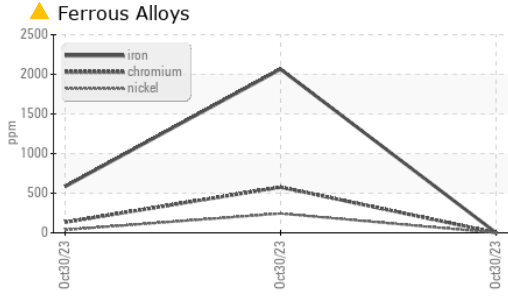
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	▲ 4.99	▲ 5.98	▲ 6.16

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	NEG	0.2%	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG



OIL ANALYSIS REPORT

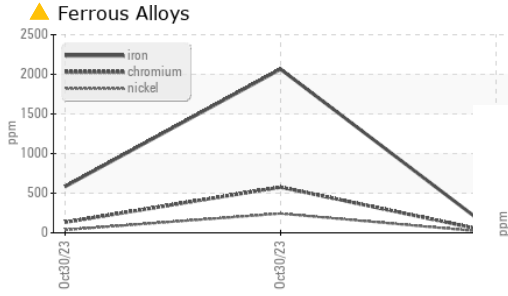


FLUID PROPERTIES method limit/base current history1 history2

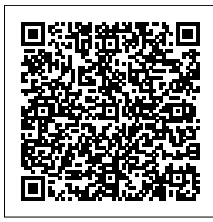
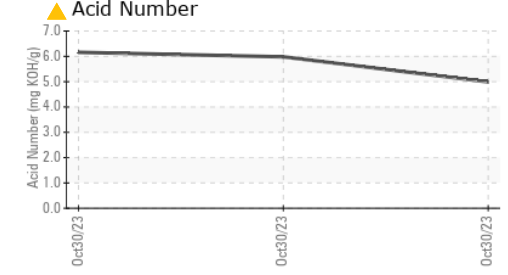
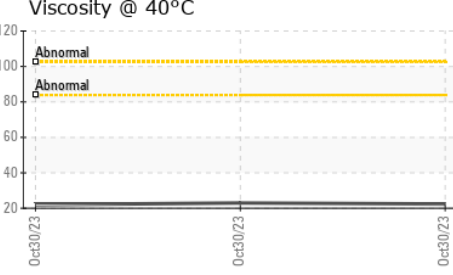
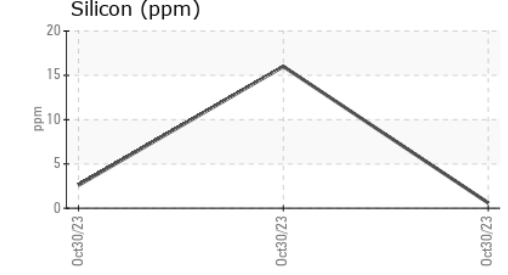
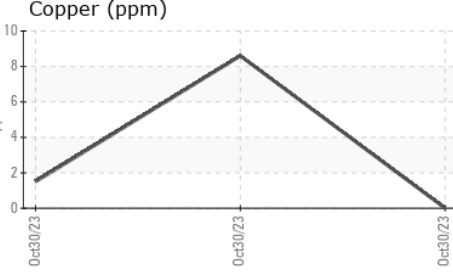
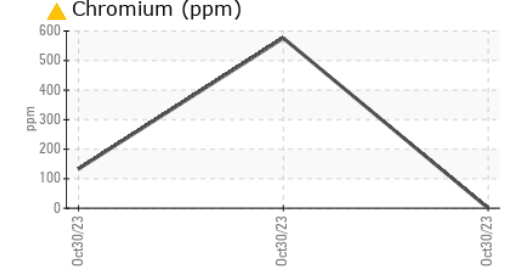
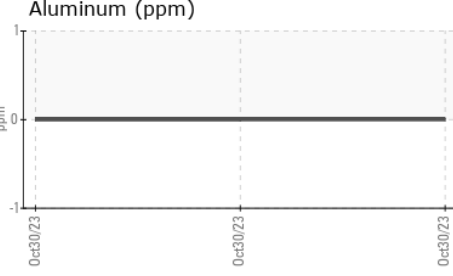
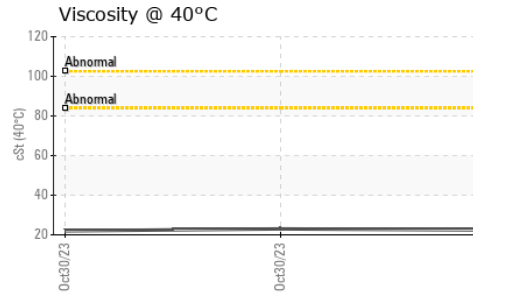
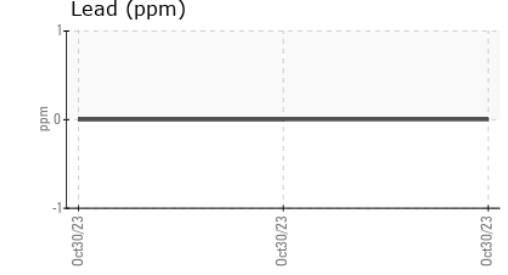
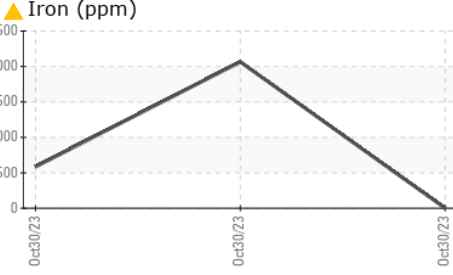
Visc @ 40°C cSt ASTM D445 **22.4** 23.0 22.0

SAMPLE IMAGES method limit/base current history1 history2

Color	no image	no image	no image
Bottom	no image	no image	no image



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0569647 **Received** : 01 Nov 2023
Lab Number : **05995852** **Diagnosed** : 10 Nov 2023
Unique Number : 10724212 **Diagnostician** : Doug Bogart
Test Package : MOB 2

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 US 02780
 Contact: GREG DUNKER
 greg.dunker@burkeoil.com
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 F: (617)889-6422

Certificate L2367
 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)