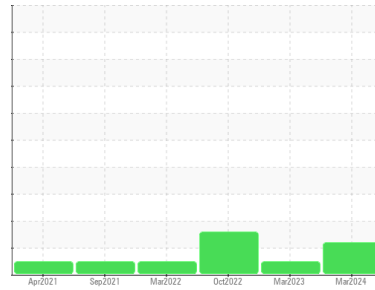




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

(FA-J6630) M&R EXPORT [9596.1]
Machine Id
FRICK RC-04 (S/N 11551M65661986)

Component

Screw Compressor

Fluid

SUMMIT RHT 68 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0851600	WC0712668	WC0712708
Sample Date	Client Info		29 Mar 2024	24 Mar 2023	26 Oct 2022
Machine Age	hrs	Client Info	13135	10969	10154
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	Not Changd
Sample Status			ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >60	6	13	27
Chromium	ppm	ASTM D5185m >4	0	0	<1
Nickel	ppm	ASTM D5185m	0	0	0
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >5	0	<1	1
Lead	ppm	ASTM D5185m >10	0	0	0
Copper	ppm	ASTM D5185m >30	0	<1	2
Tin	ppm	ASTM D5185m >15	0	0	<1
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	11
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m	0	4	<1
Calcium	ppm	ASTM D5185m	0	<1	20
Phosphorus	ppm	ASTM D5185m	0	7	14
Zinc	ppm	ASTM D5185m	0	0	24
Sulfur	ppm	ASTM D5185m	0	0	98

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	1	2	3
Sodium	ppm	ASTM D5185m	1	0	<1
Potassium	ppm	ASTM D5185m >20	0	3	1
Water	%	ASTM D6304 >0.1	0.001	0.00	0.001
ppm Water	ppm	ASTM D6304 >1000	15	0.00	10.0

FLUID CLEANLINESS

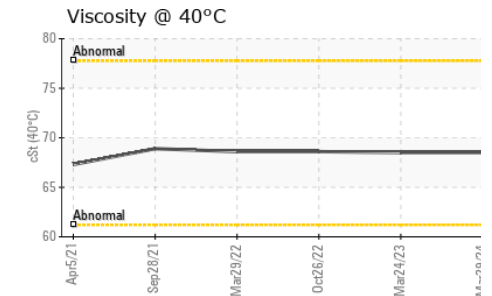
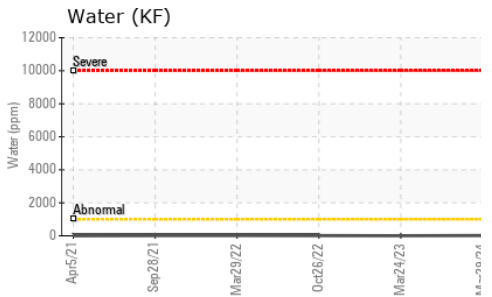
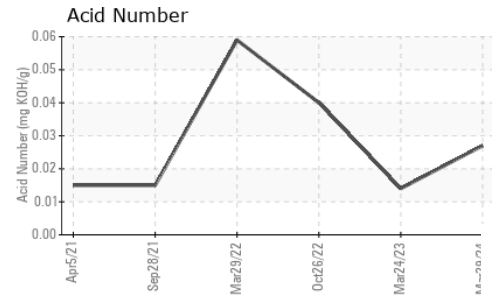
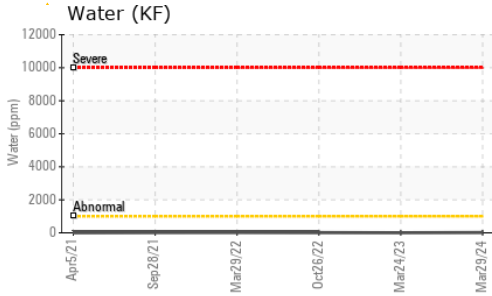
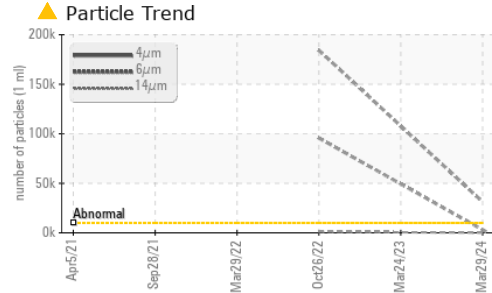
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 31261	---	▲ 184311
Particles >6µm	ASTM D7647	>2500	● 3061	---	▲ 95630
Particles >14µm	ASTM D7647	>320	19	---	▲ 1123
Particles >21µm	ASTM D7647	>80	4	---	41
Particles >38µm	ASTM D7647	>20	0	---	1
Particles >71µm	ASTM D7647	>4	0	---	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 22/19/11	---	▲ 25/24/17

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.027	0.014	0.04



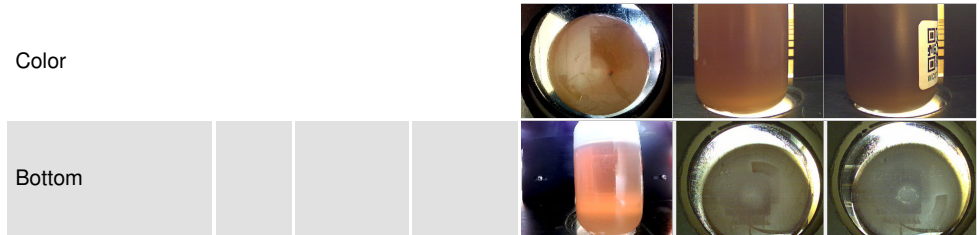
OIL ANALYSIS REPORT



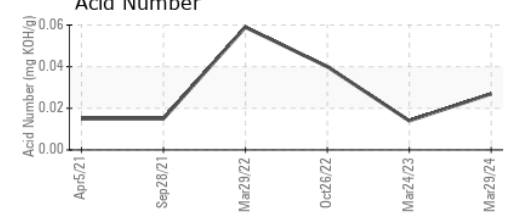
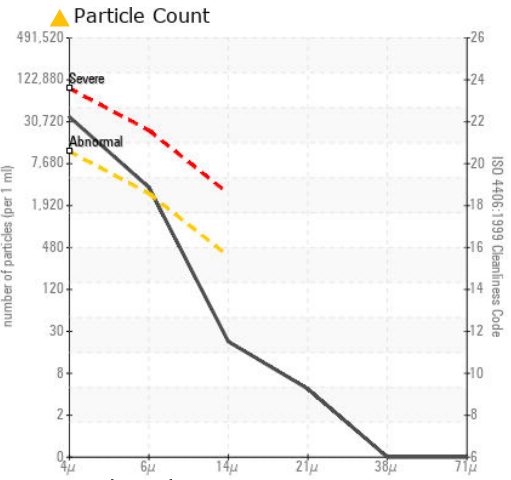
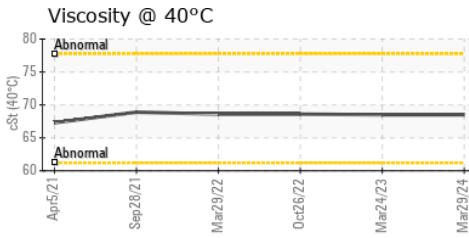
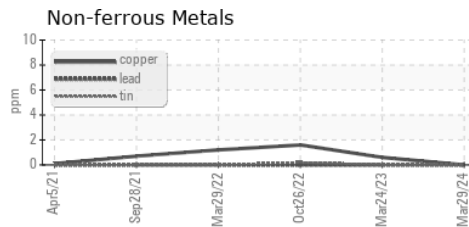
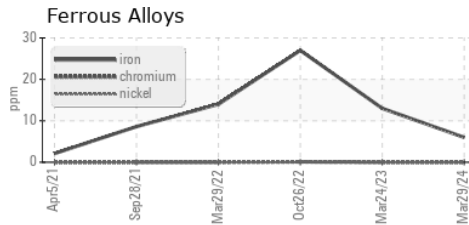
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68.5	68.5	68.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0851600
 Lab Number : 06141371
 Unique Number : 10966179
 Test Package : PLANT

Received : 08 Apr 2024
 Tested : 09 Apr 2024
 Diagnosed : 10 Apr 2024 - Angela Borella

SCHRADER MECHANICAL
 1015 BLACK DIAMOND WAY
 LODI PROVINCE, CA
 US 95240
 Contact: Schrader Mechanical
 amanda.h@smiwest.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: (209)369-6888

F: x: