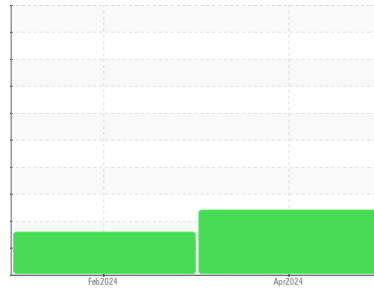


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
GEA C-3370
Component
Screw Compressor
Fluid
TULCO LUBSOIL SYN RL WI 100 (300 GAL)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info	TO20000431	TO90003238	---
Sample Date	Client Info	03 Apr 2024	13 Feb 2024	---
Machine Age	hrs	0	0	---
Oil Age	hrs	700	0	---
Oil Changed	Client Info	Changed	N/A	---
Sample Status		ABNORMAL	ATTENTION	---

WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>60	0	0	---
Chromium	ppm	ASTM D5185m	>4	0	<1	---
Nickel	ppm	ASTM D5185m		<1	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>5	<1	0	---
Lead	ppm	ASTM D5185m	>10	0	0	---
Copper	ppm	ASTM D5185m	>30	2	0	---
Tin	ppm	ASTM D5185m	>15	1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		0	<1	---
Calcium	ppm	ASTM D5185m		0	5	---
Phosphorus	ppm	ASTM D5185m	1500	1655	7	---
Zinc	ppm	ASTM D5185m		0	0	---
Sulfur	ppm	ASTM D5185m		39	2	---

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>50	2	2	---
Sodium	ppm	ASTM D5185m		<1	0	---
Potassium	ppm	ASTM D5185m	>20	1	0	---
Water	%	ASTM D6304	>2.26	0.061	0.028	---
ppm Water	ppm	ASTM D6304	>22600	619	281	---

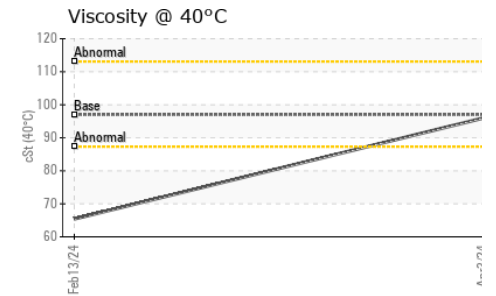
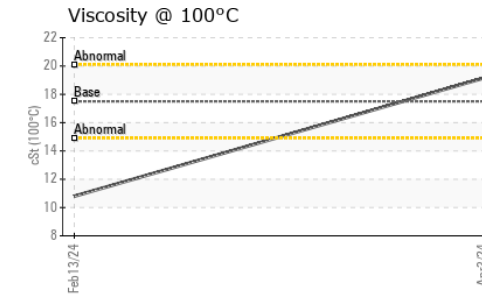
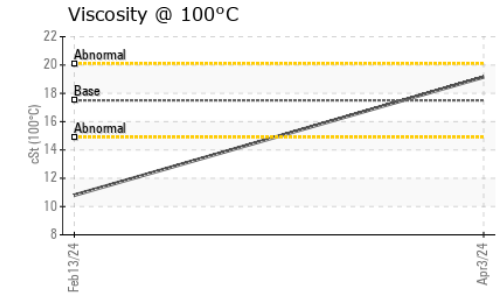
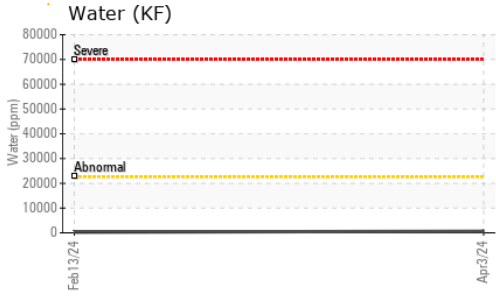
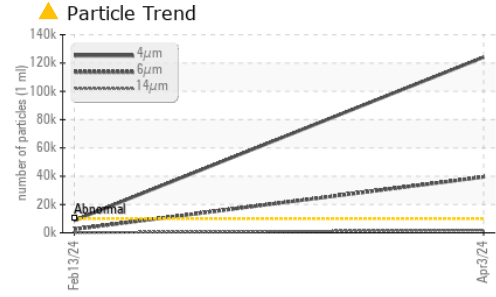
FLUID CLEANLINESS method limit/base current history1 history2

Particles >4µm	ASTM D7647	>10000	▲ 124117	8728	---
Particles >6µm	ASTM D7647	>2500	▲ 39489	● 2507	---
Particles >14µm	ASTM D7647	>320	▲ 1870	139	---
Particles >21µm	ASTM D7647	>80	▲ 381	28	---
Particles >38µm	ASTM D7647	>20	5	1	---
Particles >71µm	ASTM D7647	>4	0	0	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 24/22/18	● 20/19/14	---

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D8045	0.04	0.013	0.06	---
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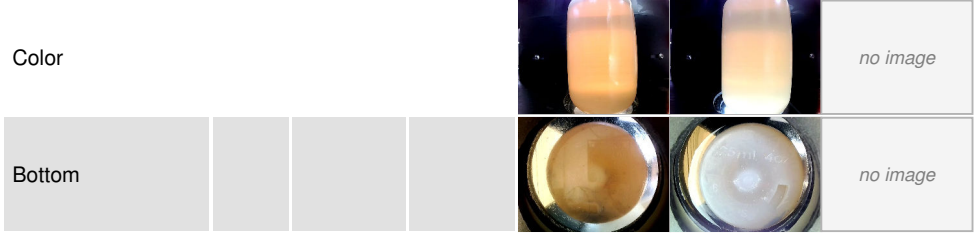
OIL ANALYSIS REPORT



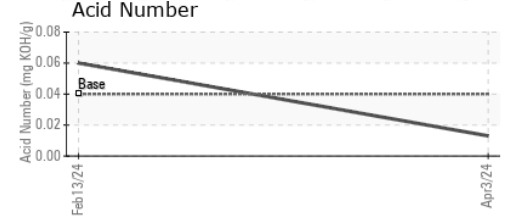
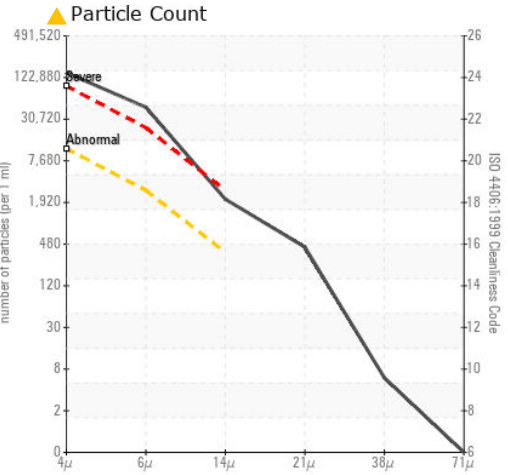
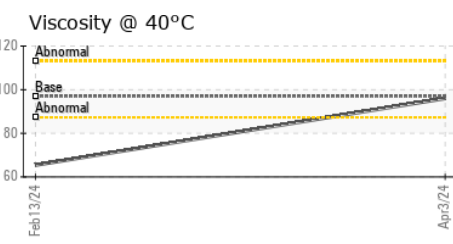
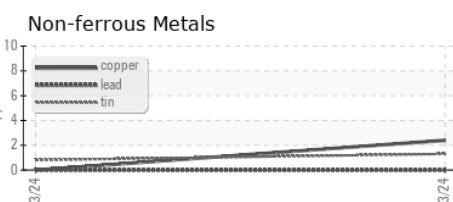
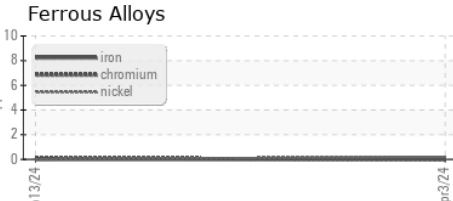
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>2.26	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	97	96.0	65.4
Visc @ 100°C	cSt	ASTM D445	17.5	19.15	10.8
Viscosity Index (VI)	Scale	ASTM D2270	198	222	156

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO20000431 **Received** : 20 May 2024
Lab Number : 06185080 **Tested** : 29 May 2024
Unique Number : 11036406 **Diagnosed** : 29 May 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

KINETIK HOLDINGS - DIAMOND
 1964 FM 2903
 BALMORHEA, TX
 US 79718
 Contact: Service Manager

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)