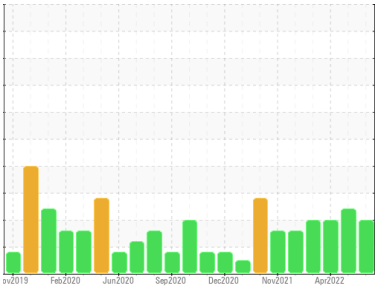
PROBLEM SUMMARY

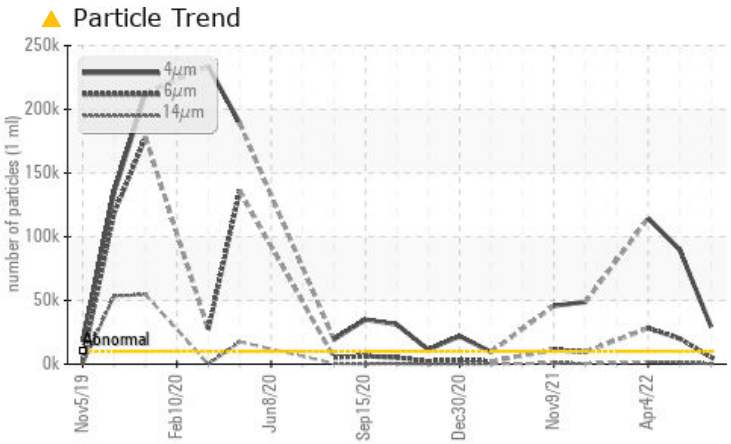
Sample Rating Trend



ISO

Machine Id
VILTER VILTER
Component
Screw Compressor
Fluid
TULCO LUBSOIL LPG WI 100 (150 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>10000	▲ **29378**	▲ 90065	▲ 114551
Particles >6µm		ASTM D7647	>2500	▲ **5530**	▲ 20151	▲ 28304
Particles >14µm		ASTM D7647	>320	▲ **382**	▲ 1427	▲ 1671
Particles >21µm		ASTM D7647	>80	▲ **83**	▲ 424	▲ 320
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **22/20/16**	▲ 24/22/18	▲ 24/22/18

Customer Id: CAMFORAR
Sample No.: TO70000005
Lab Number: 05573176
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	MISSED	Jul 13 2022	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

02 May 2022 Diag: Jonathan Hester

ISO

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

04 Apr 2022 Diag: Don Baldridge

ISO

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

07 Feb 2022 Diag: Doug Bogart

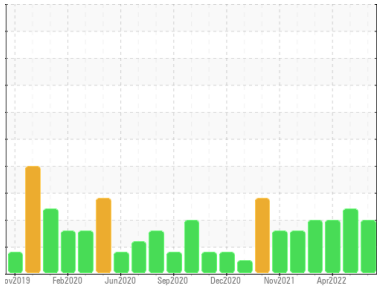
VISUAL METAL

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.An increase in the iron level is noted. Moderate concentration of visible metal present. No other contaminants were detected in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
VILTER VILTER
Component
Screw Compressor
Fluid
TULCO LUBSOIL LPG WI 100 (150 GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component if applicable. 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.

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		**TO70000005**	TO70000004	TO70000002
Sample Date		Client Info		**02 Jun 2022**	02 May 2022	04 Apr 2022
Machine Age	wks	Client Info		**0**	0	0
Oil Age	wks	Client Info		**0**	0	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	>60	**1**	2	5
Chromium	ppm	ASTM D5185m	>4	**0**	0	<1
Nickel	ppm	ASTM D5185m		**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>5	**<1**	0	<1
Lead	ppm	ASTM D5185m	>10	**0**	<1	<1
Copper	ppm	ASTM D5185m	>30	**0**	0	<1
Tin	ppm	ASTM D5185m	>15	**<1**	<1	1
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**3**	4	2
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m	0	**<1**	0	0
Calcium	ppm	ASTM D5185m		**2**	0	1
Phosphorus	ppm	ASTM D5185m	0	**4**	6	11
Zinc	ppm	ASTM D5185m	0	**3**	0	0
Sulfur	ppm	ASTM D5185m	0	**1185**	745	877

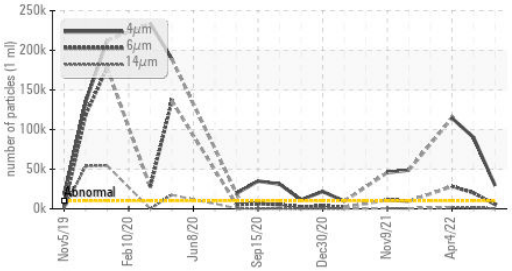
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**25**	24	22
Sodium	ppm	ASTM D5185m		**0**	0	0
Potassium	ppm	ASTM D5185m	>20	**0**	0	<1
Water	%	ASTM D6304	>2.26	**0.386**	0.343	0.192
ppm Water	ppm	ASTM D6304	>22600	**3865.4**	3431.9	1929.5

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **29378**	▲ 90065	▲ 114551
Particles >6µm		ASTM D7647	>2500	▲ **5530**	▲ 20151	▲ 28304
Particles >14µm		ASTM D7647	>320	▲ **382**	▲ 1427	▲ 1671
Particles >21µm		ASTM D7647	>80	▲ **83**	▲ 424	▲ 320
Particles >38µm		ASTM D7647	>20	**5**	▲ 22	▲ 25
Particles >71µm		ASTM D7647	>4	**0**	0	1
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **22/20/16**	▲ 24/22/18	▲ 24/22/18

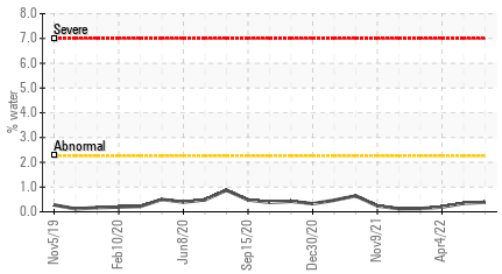
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.357**	0.259	1.09

OIL ANALYSIS REPORT

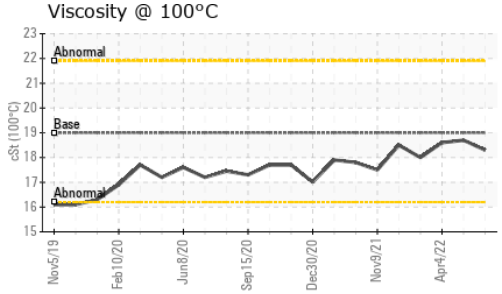
Particle Trend



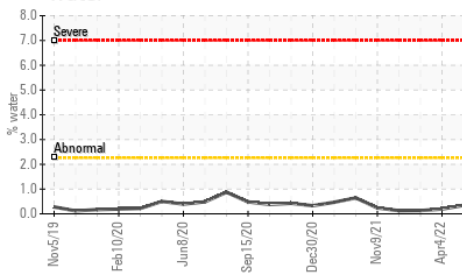
Water



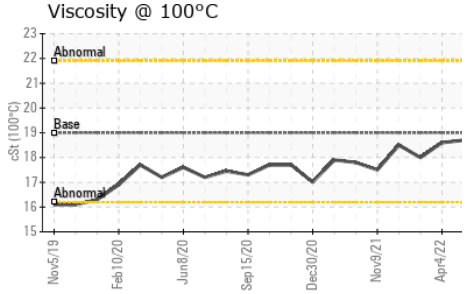
Viscosity @ 100°C



Water



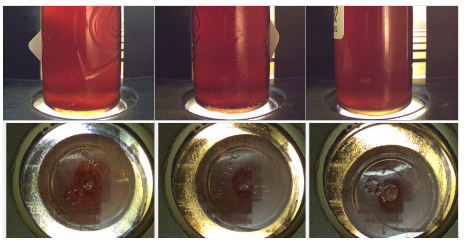
Viscosity @ 100°C



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

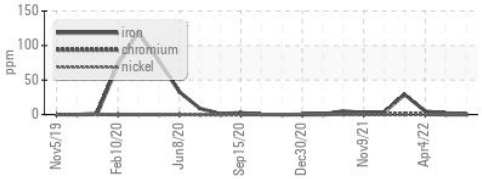
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	113	**106**	108	107
Visc @ 100°C	cSt	ASTM D445	19	**18.3**	18.7	18.6
Viscosity Index (VI)	Scale	ASTM D2270	189	**192**	193	194

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

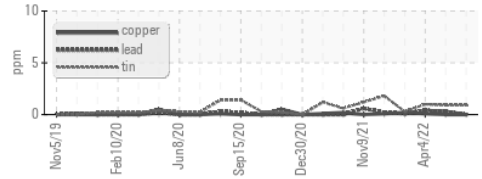


GRAPHS

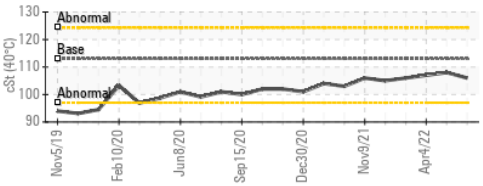
Ferrous Alloys



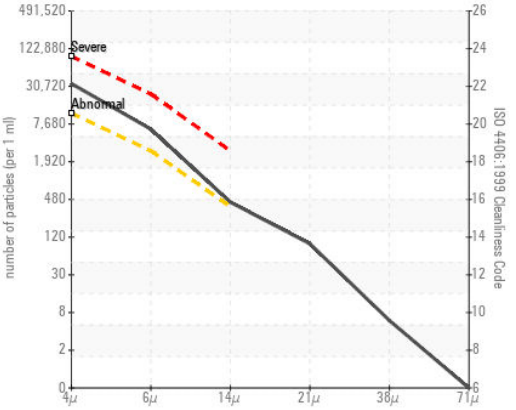
Non-ferrous Metals



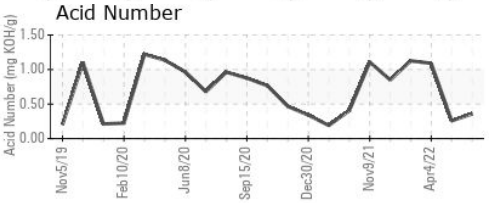
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO70000005 **Received** : 21 Jun 2022
Lab Number : 05573176 **Diagnosed** : 22 Jun 2022
Unique Number : 10022593 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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)

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Report Id: CAMFORAR [WUSCAR] 05573176 (Generated: 07/19/2023 16:02:46) Rev: 1

Submitted By: BRANDON HUTCHERSON