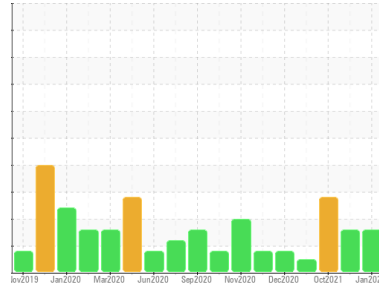
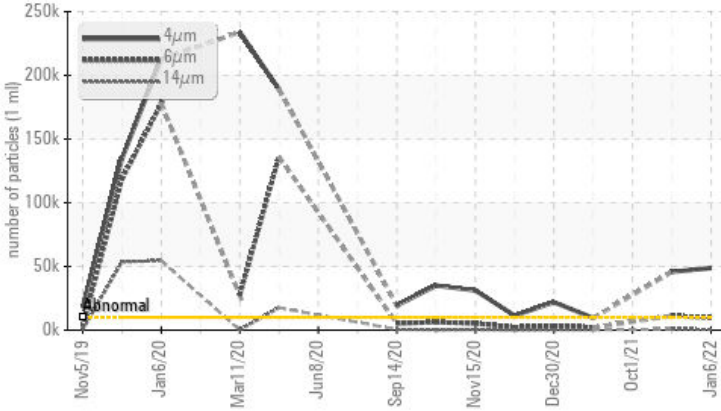


Machine Id
VILTER VILTER
 Component
Screw Compressor
 Fluid
TULCO LUBSOIL LPG WI 100 (150 GAL)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



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	▲ 48737	▲ 45755	---
Particles >6µm	ASTM D7647	>2500	▲ 9661	▲ 11270	---
Particles >14µm	ASTM D7647	>320	▲ 518	▲ 726	---
Particles >21µm	ASTM D7647	>80	▲ 124	▲ 156	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 23/20/16	▲ 23/21/17	---

Customer Id: CAMFORAR
Sample No.: TO40000022
Lab Number: 05453484
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +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	Feb 17 2022	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

09 Nov 2021 Diag: Doug Bogart

ISO



We recommend you service the filters on this component. 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



01 Oct 2021 Diag: Doug Bogart

DIRT



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a moderate amount of visible silt present in the sample. Light concentration of visible dirt/debris present in the oil. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



14 Jan 2021 Diag: Jonathan Hester

NORMAL



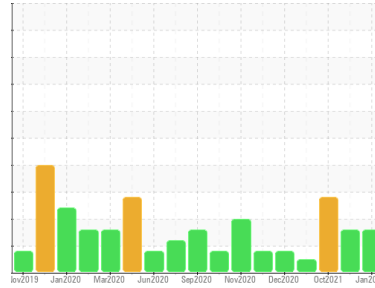
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report





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		TO40000022	TO40000019	TO40000035
Sample Date	Client Info		06 Jan 2022	09 Nov 2021	01 Oct 2021
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	3	3	5
Chromium	ppm	ASTM D5185m >4	<1	<1	<1
Nickel	ppm	ASTM D5185m	<1	<1	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	<1	0	<1
Aluminum	ppm	ASTM D5185m >5	0	0	2
Lead	ppm	ASTM D5185m >10	<1	<1	0
Copper	ppm	ASTM D5185m >30	<1	0	<1
Tin	ppm	ASTM D5185m >15	2	1	<1
Antimony	ppm	ASTM D5185m	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	4	4	5
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	<1
Calcium	ppm	ASTM D5185m	<1	0	1
Phosphorus	ppm	ASTM D5185m 0	7	6	8
Zinc	ppm	ASTM D5185m 0	1	0	0
Sulfur	ppm	ASTM D5185m 0	1454	1246	994

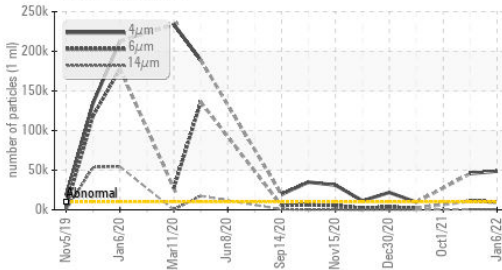
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	41	30	▲ 85
Sodium	ppm	ASTM D5185m	0	0	7
Potassium	ppm	ASTM D5185m >20	0	<1	<1
Water	%	ASTM D6304 >2.26	0.127	0.240	0.644
ppm Water	ppm	ASTM D6304 >22600	1272.1	2408.9	6440

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 48737	▲ 45755	---
Particles >6µm	ASTM D7647	>2500	▲ 9661	▲ 11270	---
Particles >14µm	ASTM D7647	>320	▲ 518	▲ 726	---
Particles >21µm	ASTM D7647	>80	▲ 124	▲ 156	---
Particles >38µm	ASTM D7647	>20	3	13	---
Particles >71µm	ASTM D7647	>4	0	0	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 23/20/16	▲ 23/21/17	---

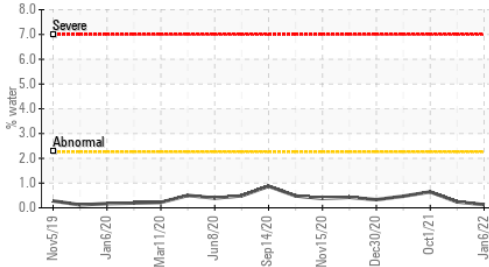
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	1.108	0.405

OIL ANALYSIS REPORT

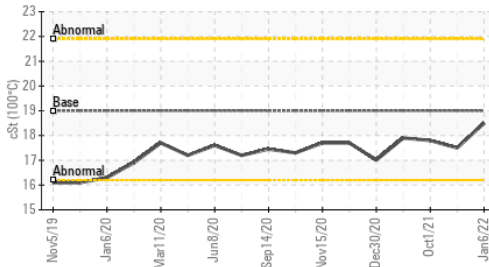
▲ Particle Trend



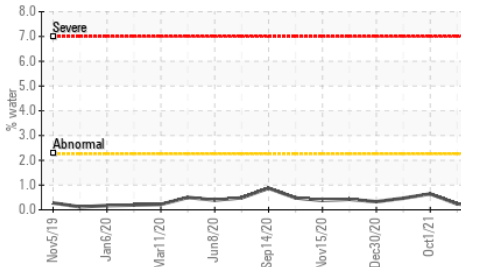
Water



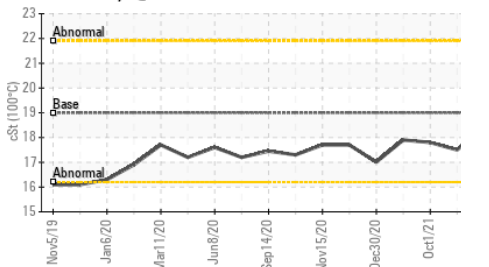
Viscosity @ 100°C



Water



Viscosity @ 100°C



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	113	105	106
Visc @ 100°C	cSt	ASTM D445	19	18.5	17.5
Viscosity Index (VI)	Scale	ASTM D2270	189	196	181

SAMPLE IMAGES	method	limit/base	current	history1	history2
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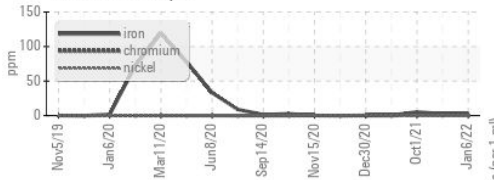
Color



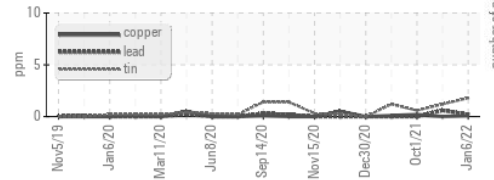
Bottom

GRAPHS

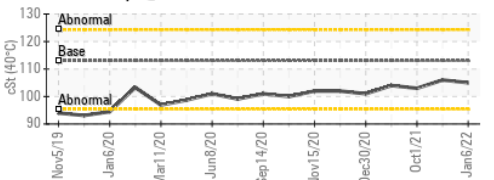
Ferrous Alloys



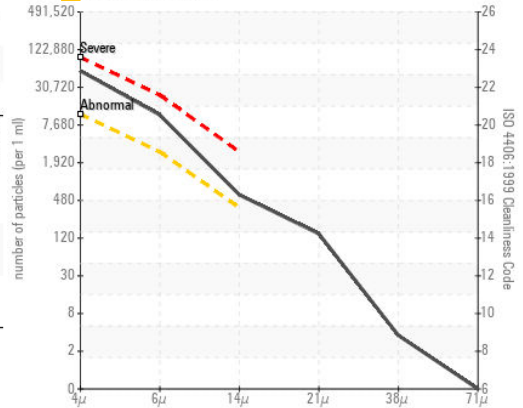
Non-ferrous Metals



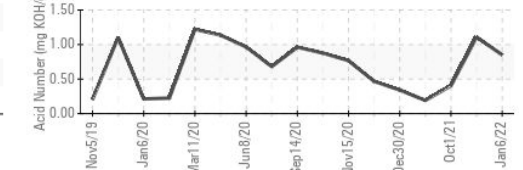
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO40000022 **Received** : 27 Jan 2022
Lab Number : 05453484 **Diagnosed** : 28 Jan 2022
Unique Number : 9827679 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

CAMBRIAN ENERGY-SOUTH TEX FT. SMITH TREATERS
 5950 COMMERCE RD
 FORT SMITH, AR
 US 72916
 Contact: DUSTIN FRY
 dustin@morrowenergy.com
 T: (479)221-7571
 F:

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)