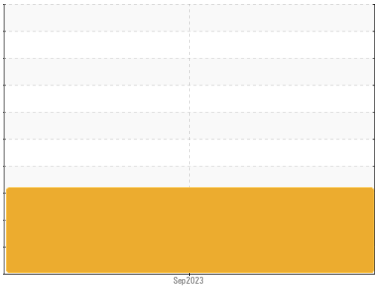
PROBLEM SUMMARY

Sample Rating Trend

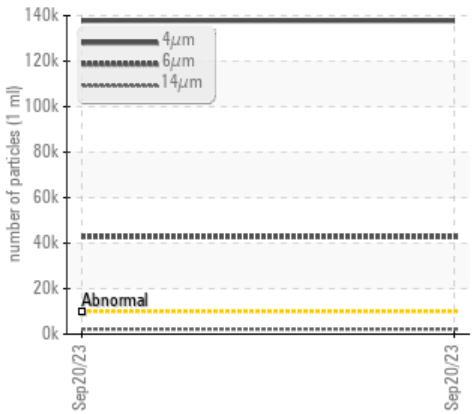


VISCOSITY

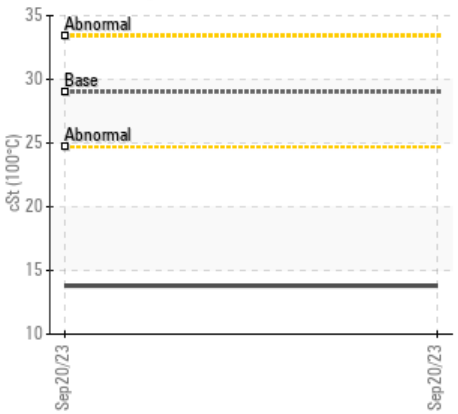
Machine Id
EMERSON 6734
Component
Screw Compressor
Fluid
TULCO LUBSOIL LPG WI 150 (150 GAL)

COMPONENT CONDITION SUMMARY

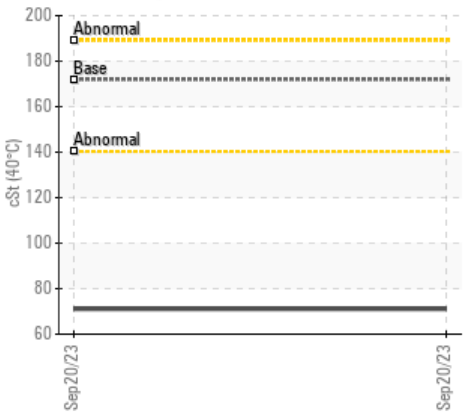
▲ Particle Trend



▲ Viscosity @ 100°C



▲ Viscosity @ 40°C



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Sulfur	ppm	ASTM D5185m	0	▲ **8013**	---	---
Particles >4µm		ASTM D7647	>10000	▲ **137742**	---	---
Particles >6µm		ASTM D7647	>1300	▲ **42788**	---	---
Particles >14µm		ASTM D7647	>320	▲ **2196**	---	---
Particles >21µm		ASTM D7647	>80	▲ **442**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/17/15	▲ **24/23/18**	---	---
Visc @ 40°C	cSt	ASTM D445	172	▲ **71.1**	---	---
Visc @ 100°C	cSt	ASTM D445	29	▲ **13.8**	---	---

Customer Id: EDIEDITX
Sample No.: TO90002456
Lab Number: 05961303
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

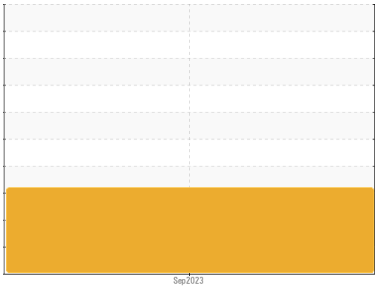
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
EMERSON 6734
Component
Screw Compressor
Fluid
TULCO LUBSOIL LPG WI 150 (150 GAL)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO90002456**	---	---
Sample Date		Client Info		**20 Sep 2023**	---	---
Machine Age	hrs	Client Info		**63250**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**Changed**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	**3**	---	---
Chromium	ppm	ASTM D5185m	>4	**0**	---	---
Nickel	ppm	ASTM D5185m		**0**	---	---
Titanium	ppm	ASTM D5185m		**0**	---	---
Silver	ppm	ASTM D5185m		**<1**	---	---
Aluminum	ppm	ASTM D5185m	>5	**0**	---	---
Lead	ppm	ASTM D5185m	>10	**0**	---	---
Copper	ppm	ASTM D5185m	>30	**<1**	---	---
Tin	ppm	ASTM D5185m	>15	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m	0	**0**	---	---
Manganese	ppm	ASTM D5185m		**<1**	---	---
Magnesium	ppm	ASTM D5185m	0	**0**	---	---
Calcium	ppm	ASTM D5185m		**0**	---	---
Phosphorus	ppm	ASTM D5185m	0	**3**	---	---
Zinc	ppm	ASTM D5185m	0	**0**	---	---
Sulfur	ppm	ASTM D5185m	0	▲ **8013**	---	---

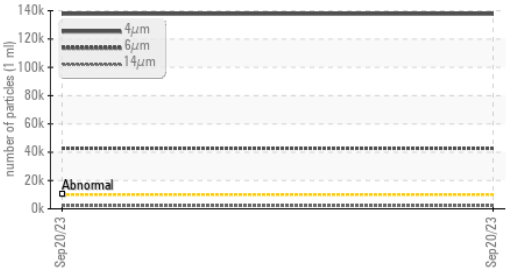
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**36**	---	---
Sodium	ppm	ASTM D5185m		**0**	---	---
Potassium	ppm	ASTM D5185m	>20	**2**	---	---
Water	%	ASTM D6304	>2.26	**0.603**	---	---
ppm Water	ppm	ASTM D6304	>22600	**6032.4**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **137742**	---	---
Particles >6µm		ASTM D7647	>1300	▲ **42788**	---	---
Particles >14µm		ASTM D7647	>320	▲ **2196**	---	---
Particles >21µm		ASTM D7647	>80	▲ **442**	---	---
Particles >38µm		ASTM D7647	>20	**4**	---	---
Particles >71µm		ASTM D7647	>4	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/17/15	▲ **24/23/18**	---	---

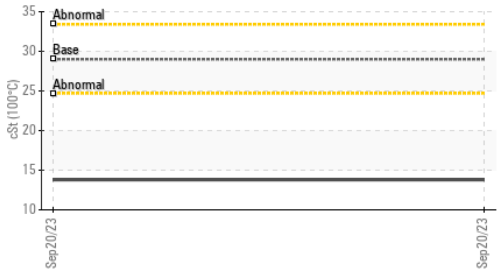
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.16**	---	---

OIL ANALYSIS REPORT

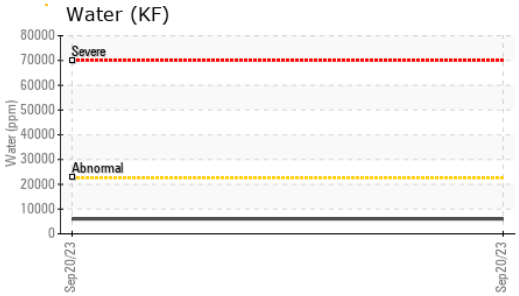
Particle Trend



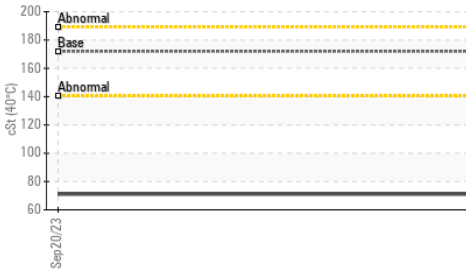
Viscosity @ 100°C



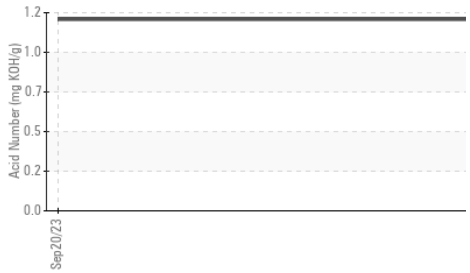
Water (KF)



Viscosity @ 40°C



Acid Number



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	**LIGHT**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
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	172	▲ **71.1**	---	---
Visc @ 100°C	cSt	ASTM D445	29	▲ **13.8**	---	---
Viscosity Index (VI)	Scale	ASTM D2270	210	**201**	---	---

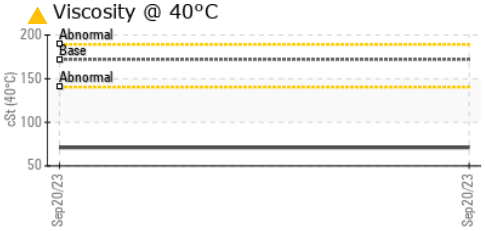
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

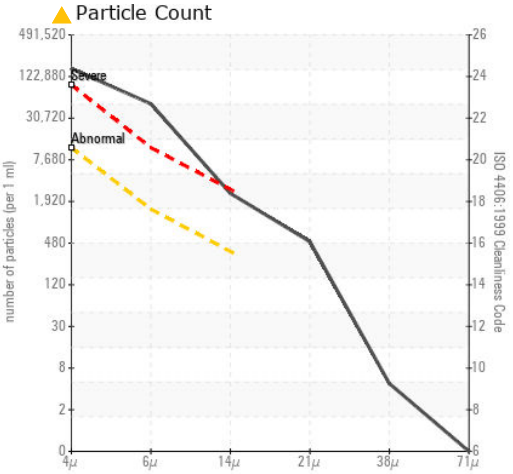
Ferrous Alloys

Non-ferrous Metals

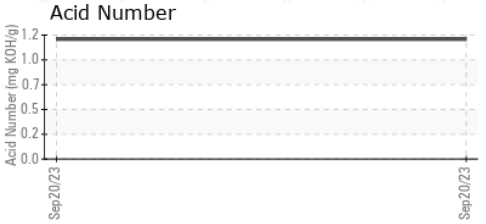
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO90002456 **Received** : 26 Sep 2023
Lab Number : 05961303 **Diagnosed** : 27 Sep 2023
Unique Number : 10662516 **Diagnostician** : Doug Bogart
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)

EDINBURG RENEWABLES, LLC
8601 N JASMAN RD
EDINBURG, TX
US 78542
Contact: Service Manager
T:
F: