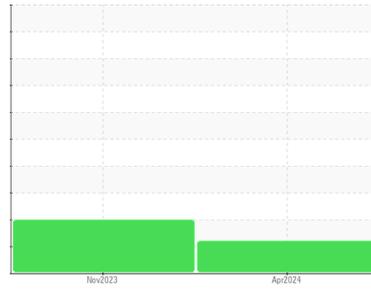


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
SC6 - PILGRAMS WEST PLANT REFRIGERATION (S/N C210723A-2)
 Component
Screw Compressor
 Fluid
TULCO LUBSOIL A68 (--- GAL)

DIAGNOSIS

- ▲ **Recommendation**
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 oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info		TO10002258	TO10002272	---
Sample Date	Client Info		03 Apr 2024	30 Nov 2023	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Not Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>60	6	40	---
Chromium	ppm	ASTM D5185m	>4	0	<1	---
Nickel	ppm	ASTM D5185m		0	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>5	0	<1	---
Lead	ppm	ASTM D5185m	>10	0	0	---
Copper	ppm	ASTM D5185m	>30	0	0	---
Tin	ppm	ASTM D5185m	>15	0	0	---
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	0	---
Magnesium	ppm	ASTM D5185m		0	0	---
Calcium	ppm	ASTM D5185m		0	15	---
Phosphorus	ppm	ASTM D5185m		0	0	---
Zinc	ppm	ASTM D5185m		0	<1	---
Sulfur	ppm	ASTM D5185m	250	0	297	---

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>50	0	3	---
Sodium	ppm	ASTM D5185m		1	0	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Water	%	ASTM D6304	>0.1	0.004	0.004	---
ppm Water	ppm	ASTM D6304	>1000	49	45	---

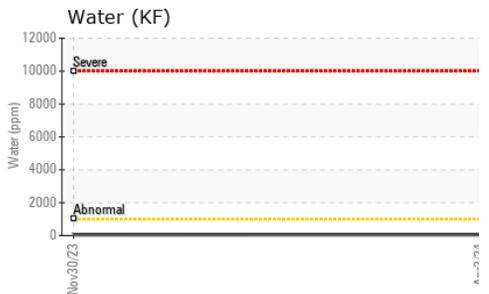
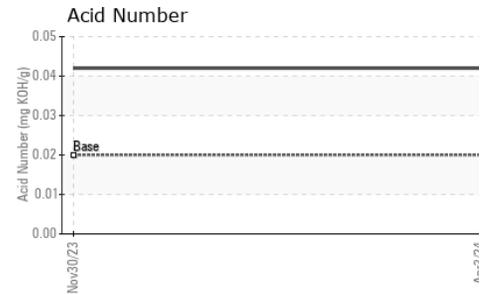
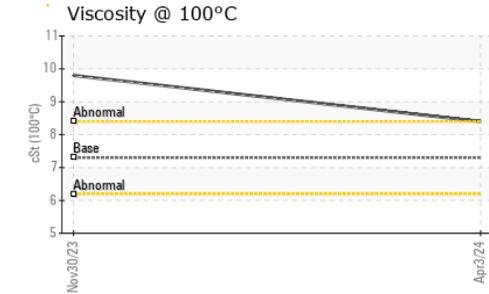
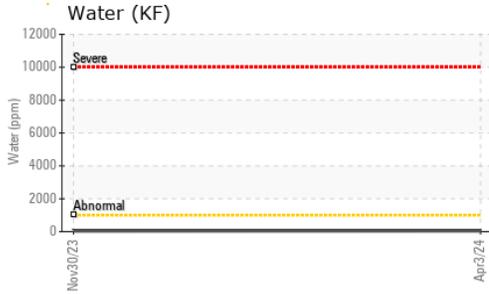
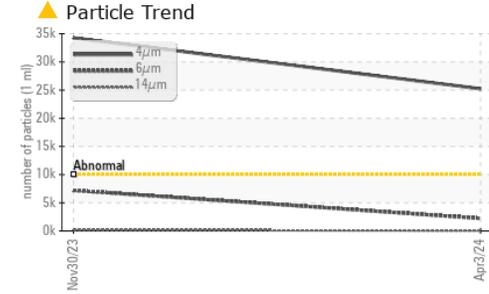
FLUID CLEANLINESS method limit/base current history1 history2

Particles >4µm	ASTM D7647	>10000	▲ 25227	▲ 34267	---
Particles >6µm	ASTM D7647	>2500	2226	▲ 7195	---
Particles >14µm	ASTM D7647	>320	42	161	---
Particles >21µm	ASTM D7647	>80	6	23	---
Particles >38µm	ASTM D7647	>20	0	0	---
Particles >71µm	ASTM D7647	>4	0	0	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 22/18/13	▲ 22/20/15	---

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D8045	0.02	0.042	0.042	---
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OIL ANALYSIS REPORT



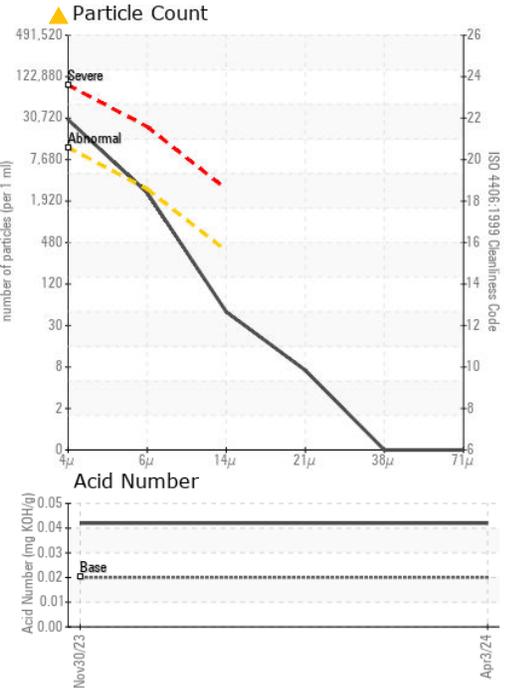
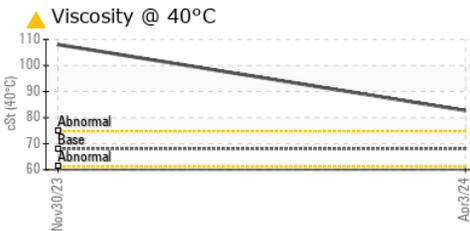
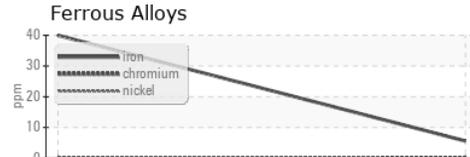
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	▲ 82.7	▲ 108
Visc @ 100°C	cSt	ASTM D445	7.3	▲ 8.4	▲ 9.8
Viscosity Index (VI)	Scale	ASTM D2270	50	58	55

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10002258 **Received** : 09 Apr 2024
Lab Number : 06143131 **Tested** : 10 Apr 2024
Unique Number : 10967939 **Diagnosed** : 11 Apr 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

VELVIN OIL COMPANY
P.O. BOX 993
HENDERSON, TX
US 75653
Contact: AARON NILSSON
awn.nilsson@icloud.com
T: (903)807-9576
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)