

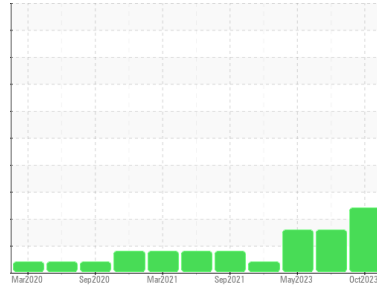
PROBLEM SUMMARY

Sample Rating Trend

VISCOSITY

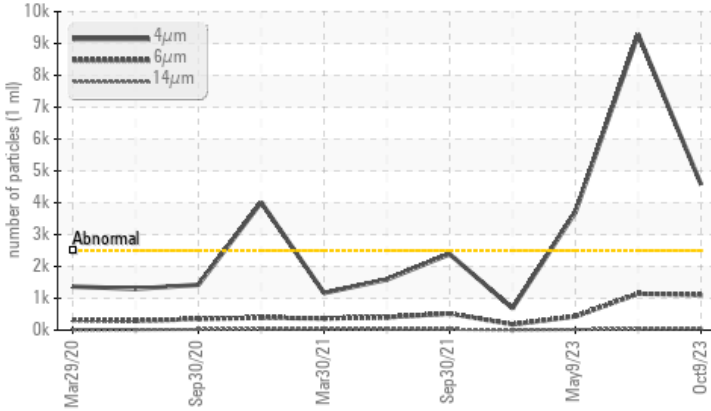


Machine Id
RC-3 (S/N 32186)
Component
Reciprocating Compressor
Fluid
CHEVRON REFRIGERATION OIL WF 68 (--- GAL)

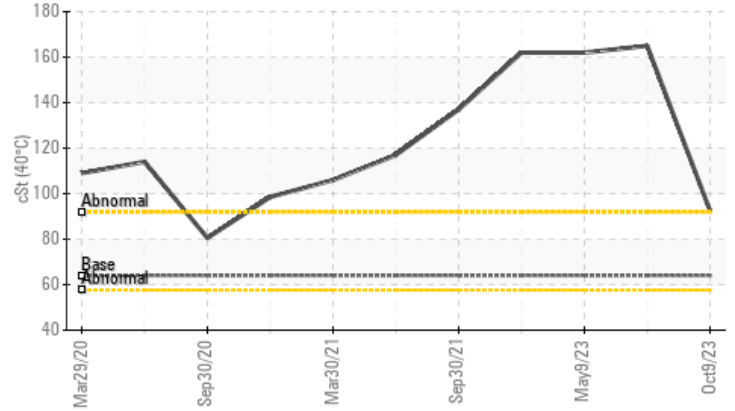


COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ 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	ABNORMAL	ATTENTION
Particles >4µm	ASTM D7647	>2500	▲ 4576	▲ 9283	▲ 3703
Particles >6µm	ASTM D7647	>320	▲ 1101	▲ 1147	▲ 433
Particles >14µm	ASTM D7647	>40	▲ 49	34	20
Particles >21µm	ASTM D7647	>10	▲ 12	9	3
Oil Cleanliness	ISO 4406 (c)	>18/15/12	▲ 19/17/13	▲ 20/17/12	▲ 19/16/11
Visc @ 40°C	cSt ASTM D445	64.0	▲ 92.6	▲ 165	▲ 162

Customer Id: KRAWAL
Sample No.: PCA0106634
Lab Number: 05978326
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

26 Jul 2023 Diag: Don Baldrige

VISCOSITY



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 silt (particulates < 14 microns in size) present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

[view report](#)



09 May 2023 Diag: Jonathan Hester

VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

[view report](#)



19 Jan 2023 Diag: Jonathan Hester

VISCOSITY

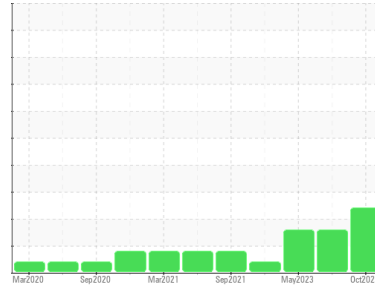


Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. The amount and size of particulates present in the system are acceptable. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

[view report](#)



Machine Id
RC-3 (S/N 32186)
 Component
Reciprocating Compressor
 Fluid
CHEVRON REFRIGERATION OIL WF 68 (--- 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 higher than normal. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0106634	PCA0101701	PCA0095712
Sample Date	Client Info	09 Oct 2023	26 Jul 2023	09 May 2023
Machine Age	hrs	44499	43899	43854
Oil Age	hrs	551	11508	11463
Oil Changed	Client Info	Changed	Not Changd	Not Changd
Sample Status		ABNORMAL	ABNORMAL	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	0	1	2
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m	0	0	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	0	0	0
Lead	ppm	ASTM D5185m >25	0	0	0
Copper	ppm	ASTM D5185m >50	0	0	0
Tin	ppm	ASTM D5185m >15	0	0	0
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	1	0	11
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	0	0
Magnesium	ppm	ASTM D5185m	3	0	13
Calcium	ppm	ASTM D5185m	0	0	13
Phosphorus	ppm	ASTM D5185m	0	0	13
Zinc	ppm	ASTM D5185m	0	0	71
Sulfur	ppm	ASTM D5185m	188	224	226

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	0	0	0
Sodium	ppm	ASTM D5185m	<1	<1	0
Potassium	ppm	ASTM D5185m >20	0	0	0
Water	%	ASTM D6304 >0.1	0.003	0.00	0.006
ppm Water	ppm	ASTM D6304 >1000	30.8	0.00	67.0

FLUID CLEANLINESS

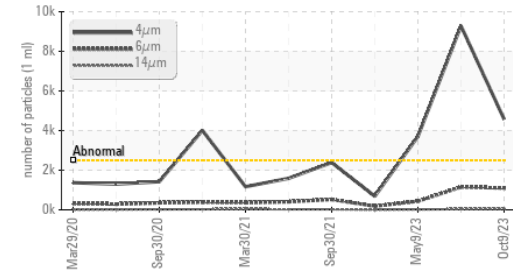
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >2500	▲ 4576	▲ 9283	▲ 3703
Particles >6µm	ASTM D7647 >320	▲ 1101	▲ 1147	▲ 433
Particles >14µm	ASTM D7647 >40	▲ 49	34	20
Particles >21µm	ASTM D7647 >10	▲ 12	9	3
Particles >38µm	ASTM D7647 >3	1	1	0
Particles >71µm	ASTM D7647 >3	0	1	0
Oil Cleanliness	ISO 4406 (c) >18/15/12	▲ 19/17/13	▲ 20/17/12	▲ 19/16/11

FLUID DEGRADATION

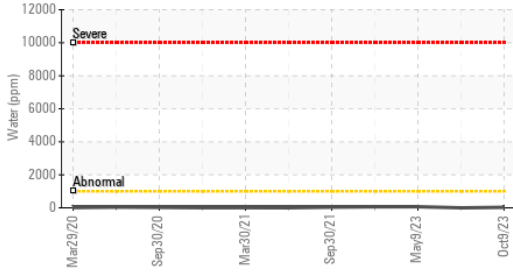
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.014	0.014	0.014

OIL ANALYSIS REPORT

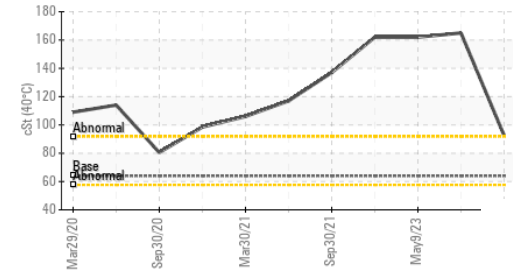
▲ Particle Trend



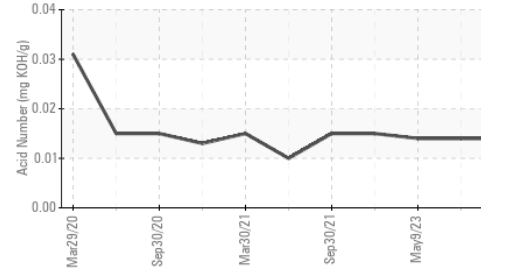
Water (KF)



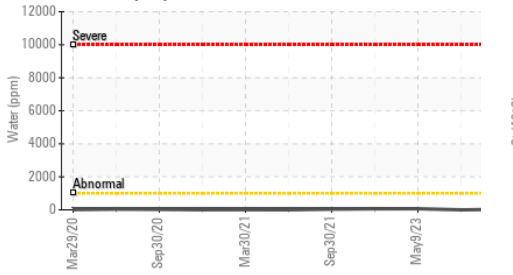
▲ Viscosity @ 40°C



Acid Number



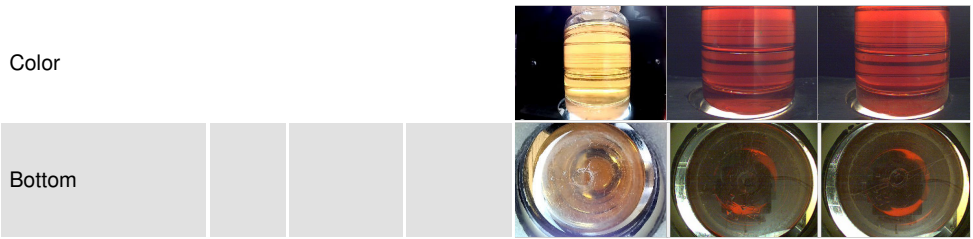
Water (KF)



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	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

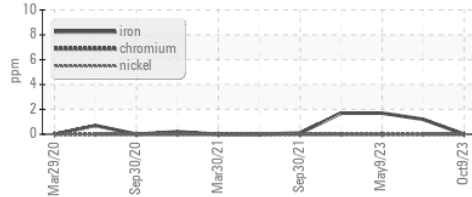
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 64.0	▲ 92.6	▲ 165	▲ 162

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

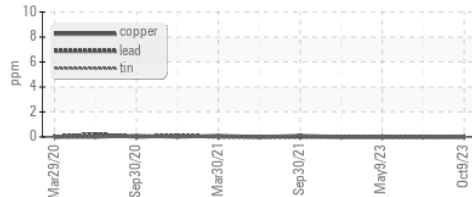


GRAPHS

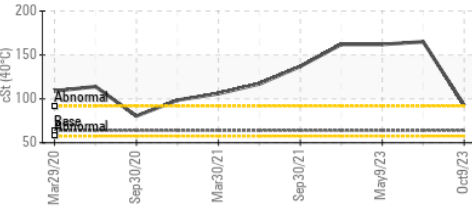
Ferrous Alloys



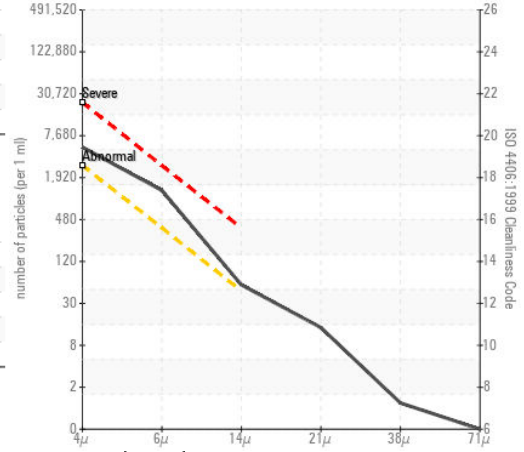
Non-ferrous Metals



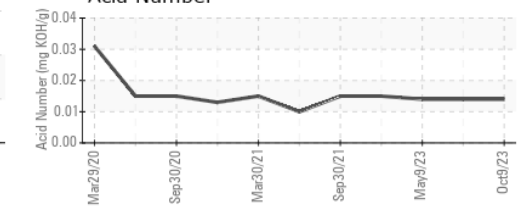
▲ Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106634 **Received** : 13 Oct 2023
Lab Number : 05978326 **Diagnosed** : 16 Oct 2023
Unique Number : 10695621 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

KraftHeinz - Walton - Plant UNK
 261 Delaware St.
 Walton, NY
 US 13856
 Contact: Cindy Scofield
 cindy.scofield@kraft.com
 T: (607)865-2330
 F: (607)865-8863

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)