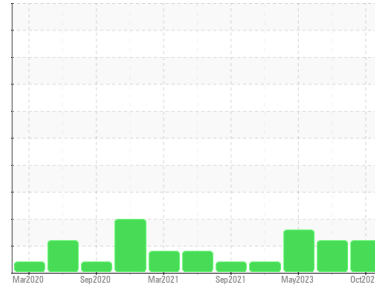


PROBLEM SUMMARY

Sample Rating Trend

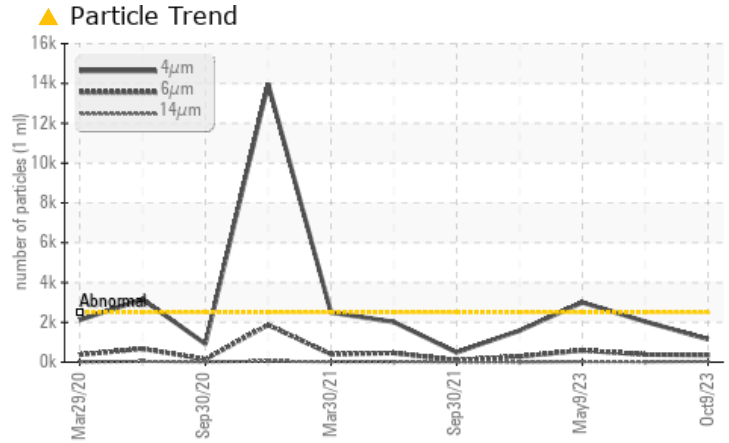
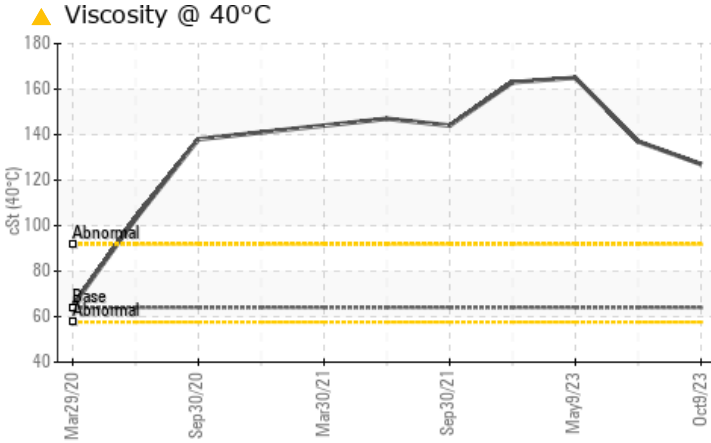


VISCOSITY



Machine Id
RC-8 (S/N 62332)
Component
Reciprocating Compressor
Fluid
CHEVRON REFRIGERATION OIL WF 68 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	ATTENTION	ATTENTION	
Particles >6µm	ASTM D7647	>320	▲ 358	▲ 382	▲ 594	
Oil Cleanliness	ISO 4406 (c)	>18/15/12	▲ 17/16/12	▲ 18/16/11	▲ 19/16/12	
Visc @ 40°C	cSt	ASTM D445	64.0	▲ 127	▲ 137	▲ 165

Customer Id: KRAWAL
Sample No.: PCA0106631
Lab Number: 05978327
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

26 Jul 2023 Diag: Don Baldrige

VISCOSITY



Oil and filter change at the time of sampling has been noted. 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



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



22 Jan 2023 Diag: Jonathan Hester

VISCOSITY



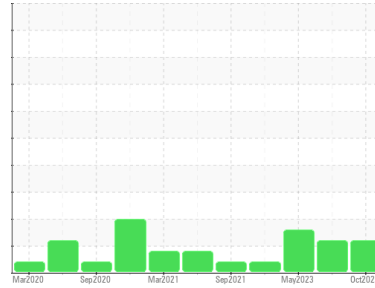
Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. The amount and size of particulates present in the system are acceptable. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
RC-8 (S/N 62332)
 Component
Reciprocating Compressor
 Fluid
CHEVRON REFRIGERATION OIL WF 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

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	PCA0106631	PCA0101706	PCA0095716
Sample Date	Client Info	09 Oct 2023	26 Jul 2023	09 May 2023
Machine Age	hrs	Client Info	34115	33740
Oil Age	hrs	Client Info	375	8753
Oil Changed	Client Info	Not Chngd	Changed	Not Chngd
Sample Status		ATTENTION	ATTENTION	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	0	0	<1
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	2	0	14
Calcium	ppm	ASTM D5185m	0	0	13
Phosphorus	ppm	ASTM D5185m	0	0	14
Zinc	ppm	ASTM D5185m	0	0	71
Sulfur	ppm	ASTM D5185m	170	134	220

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	0	<1	0
Sodium	ppm	ASTM D5185m	<1	<1	<1
Potassium	ppm	ASTM D5185m >20	0	0	0
Water	%	ASTM D6304 >0.1	0.003	0.00	0.002
ppm Water	ppm	ASTM D6304 >1000	27.3	0.00	20.3

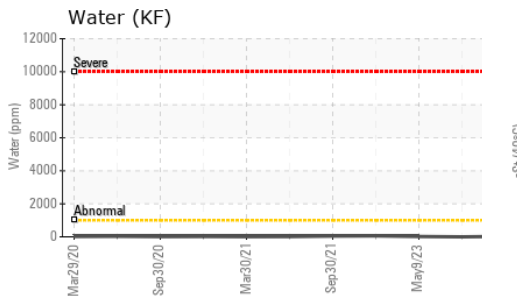
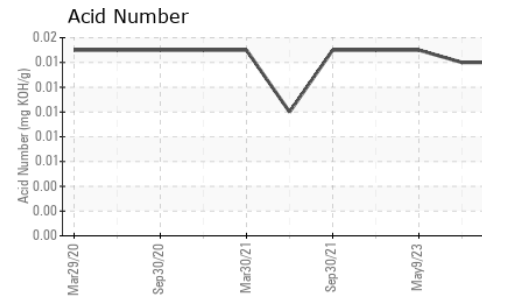
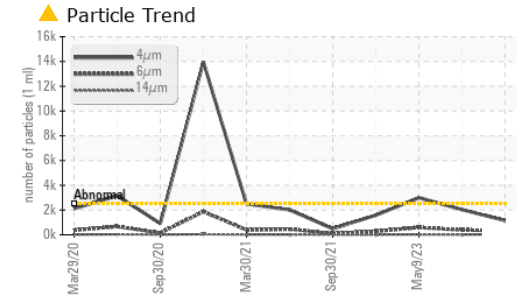
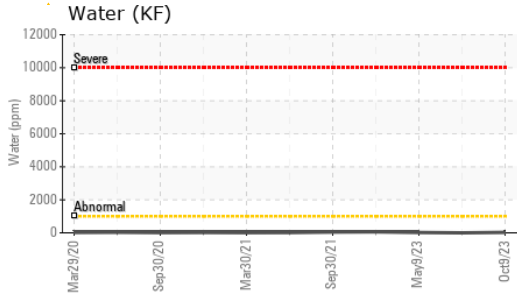
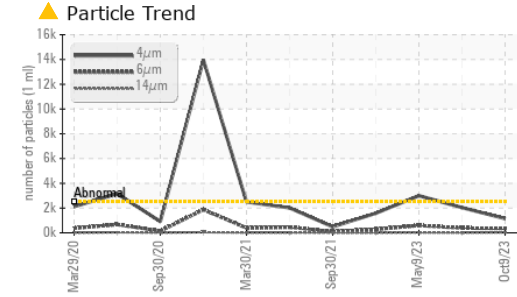
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >2500	1147	2037	▲ 2999
Particles >6µm	ASTM D7647 >320	▲ 358	▲ 382	▲ 594
Particles >14µm	ASTM D7647 >40	35	19	29
Particles >21µm	ASTM D7647 >10	12	4	4
Particles >38µm	ASTM D7647 >3	1	0	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >18/15/12	▲ 17/16/12	▲ 18/16/11	▲ 19/16/12

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.014	0.014	0.015

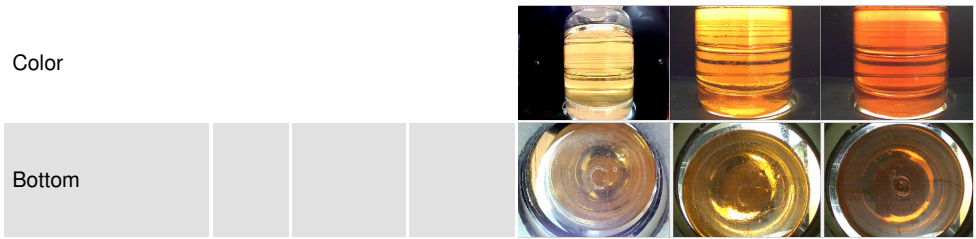
OIL ANALYSIS REPORT



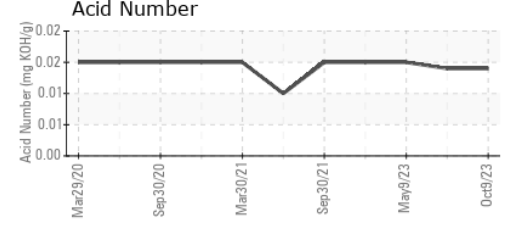
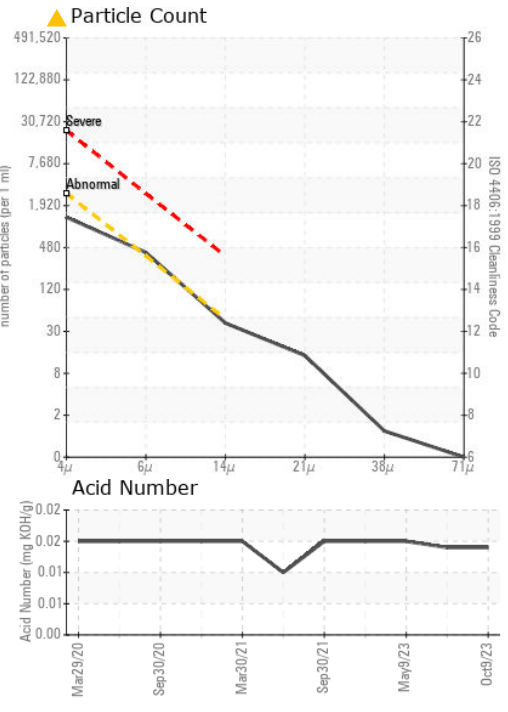
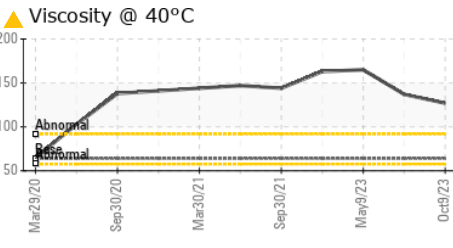
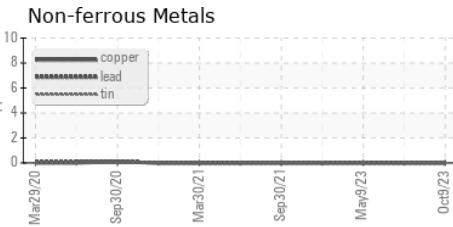
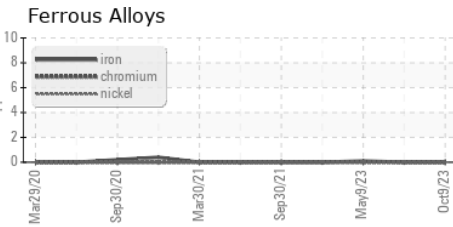
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	64.0	▲ 127	▲ 137

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106631
Lab Number : 05978327
Unique Number : 10695622
Test Package : IND 2 (Additional Tests: KF, PrtCount)

Received : 13 Oct 2023
Diagnosed : 16 Oct 2023
Diagnostician : Doug Bogart

Certificate L2367
 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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