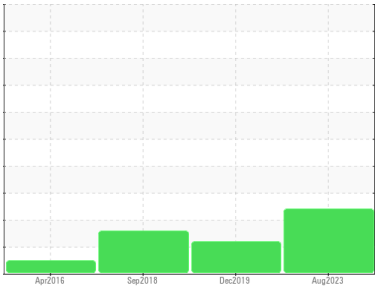
PROBLEM SUMMARY

Sample Rating Trend

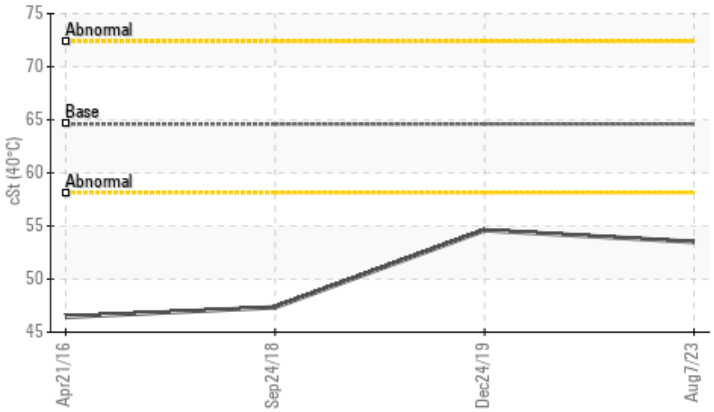


VISCOSITY

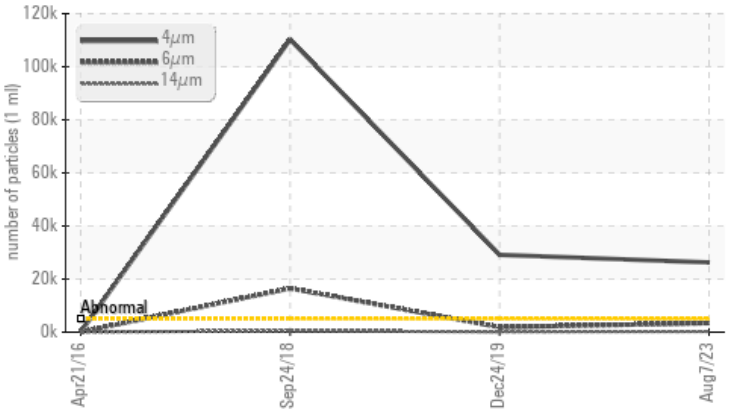
Machine Id
SEACRANE K-01159 RIG 77-B (S/N 026613)
Component
Port Crane
Fluid
CHEVRON CLARITY HYDRAULIC AW 68 (6 PNT)

COMPONENT CONDITION SUMMARY

Viscosity @ 40°C



Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>5000	▲ **26253**	▲ 29135	▲ 110267
Particles >6µm		ASTM D7647	>1300	▲ **3420**	▲ 1860	▲ 16484
Particles >14µm		ASTM D7647	>160	▲ **204**	98	▲ 512
Particles >21µm		ASTM D7647	>40	▲ **41**	21	▲ 106
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/19/15**	▲ 22/18/14	▲ 24/21/16
Visc @ 40°C	cSt	ASTM D445	64.6	▲ **53.5**	▲ 54.6	47.34

Customer Id: PARNEWLA
Sample No.: RP147229
Lab Number: 05922220
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

24 Dec 2019 Diag: Jonathan Hester

VISCOSITY

No corrective action is recommended at this time. 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. Confirm oil type. The AN level is acceptable for this fluid.

view report

24 Sep 2018 Diag: Jonathan Hester

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

21 Apr 2016 Diag: Jonathan Hester

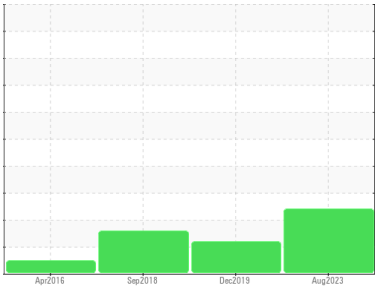
NORMAL

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

view report

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
SEACRANE K-01159 RIG 77-B (S/N 026613)
Component
Port Crane
Fluid
CHEVRON CLARITY HYDRAULIC AW 68 (6 PNT)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component. 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. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP147229**	RP200640	RP154781
Sample Date		Client Info		**07 Aug 2023**	24 Dec 2019	24 Sep 2018
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>53	**4**	4	9
Chromium	ppm	ASTM D5185m	>4	**0**	<1	<1
Nickel	ppm	ASTM D5185m	>20	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m		**0**	1	<1
Aluminum	ppm	ASTM D5185m	>4	**1**	0	<1
Lead	ppm	ASTM D5185m	>100	**0**	<1	2
Copper	ppm	ASTM D5185m	>50	**8**	8	13
Tin	ppm	ASTM D5185m	>4	**0**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	0	6
Vanadium	ppm	ASTM D5185m		**<1**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	<1

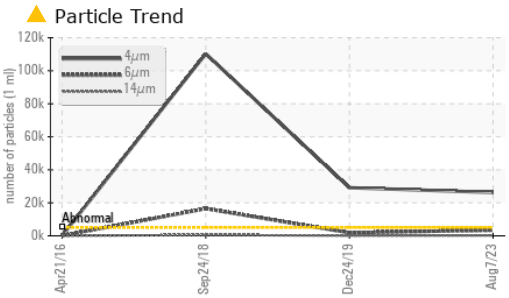
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	2
Barium	ppm	ASTM D5185m		**0**	0	8
Molybdenum	ppm	ASTM D5185m		**0**	<1	3
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**1**	<1	16
Calcium	ppm	ASTM D5185m		**10**	12	44
Phosphorus	ppm	ASTM D5185m		**251**	277	263
Zinc	ppm	ASTM D5185m		**67**	103	236

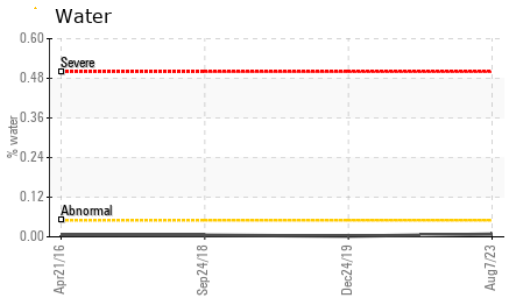
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**2**	3	3
Sodium	ppm	ASTM D5185m		**1**	0	2
Potassium	ppm	ASTM D5185m	>20	**0**	0	<1
Water	%	ASTM D6304	>0.05	**0.008**	0.002	0.005
ppm Water	ppm	ASTM D6304	>500	**82.6**	27.8	50

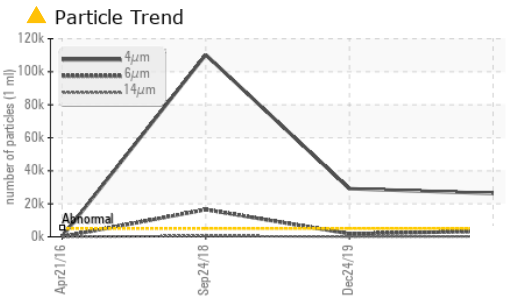
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **26253**	▲ 29135	▲ 110267
Particles >6µm		ASTM D7647	>1300	▲ **3420**	▲ 1860	▲ 16484
Particles >14µm		ASTM D7647	>160	▲ **204**	98	▲ 512
Particles >21µm		ASTM D7647	>40	▲ **41**	21	▲ 106
Particles >38µm		ASTM D7647	>10	**0**	2	5
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/19/15**	▲ 22/18/14	▲ 24/21/16

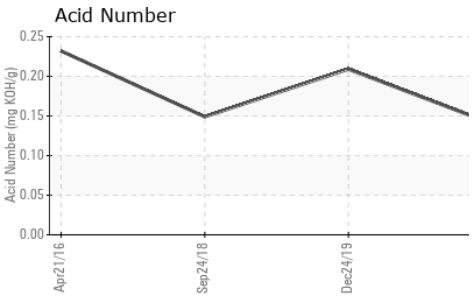
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.14**	0.209	0.149

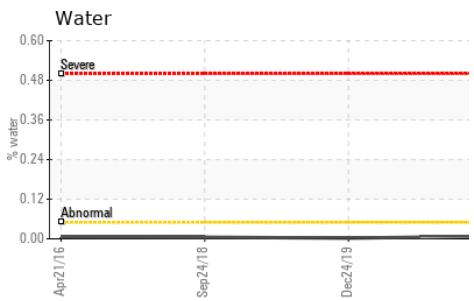
OIL ANALYSIS REPORT









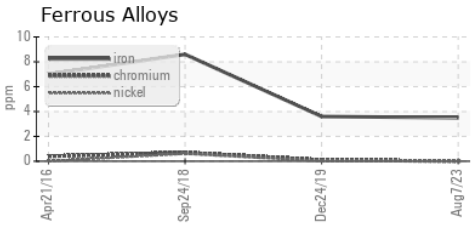


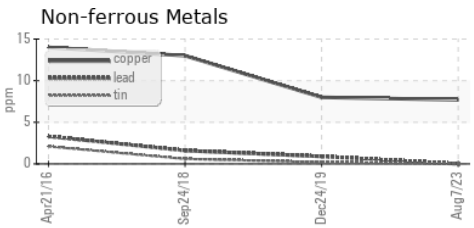
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

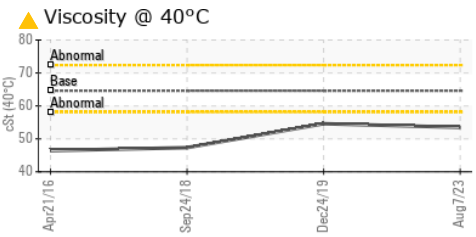
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	64.6	▲ **53.5**	▲ 54.6	47.34

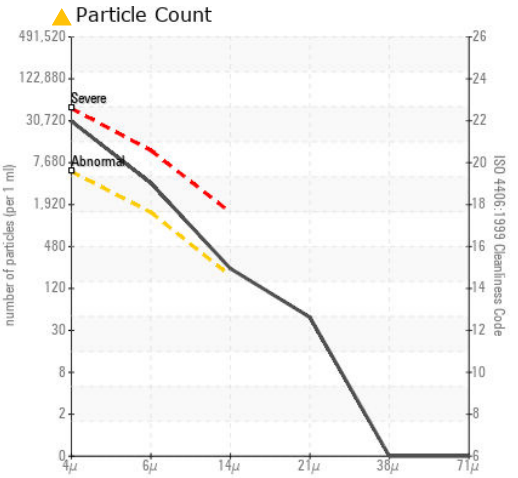
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

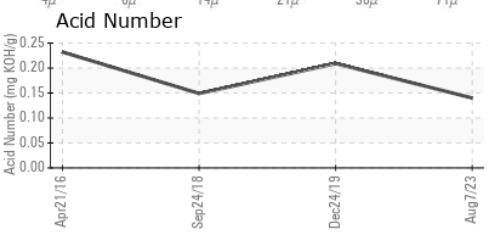
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP147229 **Received** : 11 Aug 2023
Lab Number : 05922220 **Diagnosed** : 14 Aug 2023
Unique Number : 10602167 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: PrtCount)

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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