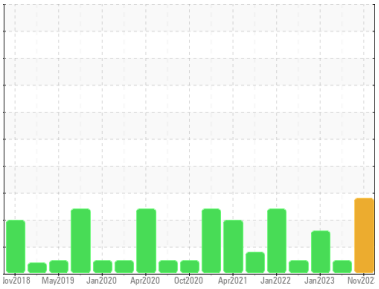
PROBLEM SUMMARY

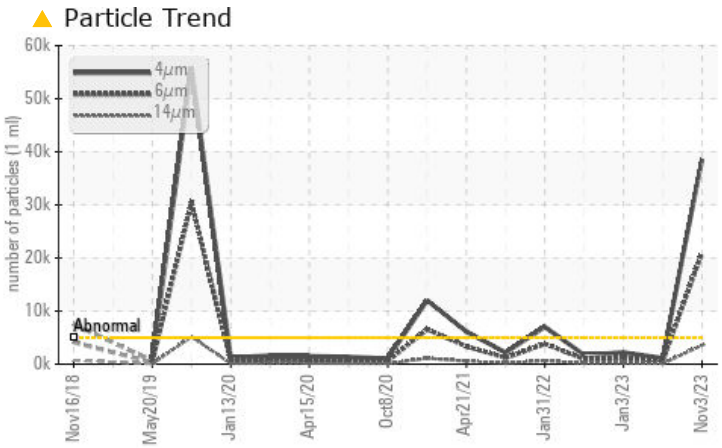
Sample Rating Trend



ISO

Machine Id
PRESS 3 NON-FLAM
Component
Hydraulic System
Fluid
TEXACO HYDRAULIC SAFETY FLUID (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	ATTENTION
Particles >4µm		ASTM D7647	>5000	▲ **38557**	1133	2221
Particles >6µm		ASTM D7647	>1300	▲ **21004**	617	1210
Particles >14µm		ASTM D7647	>160	▲ **3575**	105	▲ 206
Particles >21µm		ASTM D7647	>40	▲ **1204**	35	▲ 69
Particles >38µm		ASTM D7647	>10	▲ **186**	5	▲ 11
Particles >71µm		ASTM D7647	>3	▲ **19**	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/22/19**	17/16/14	▲ 18/17/15

Customer Id: KAIRICVA
Sample No.: WC0782217
Lab Number: 06001035
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@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 Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

24 Jan 2023 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 oil. The amount and size of particulates present in the system are acceptable. The pH level of this fluid is within the acceptable limits. The condition of the oil is acceptable for the time in service. pH is 8.00.

view report

03 Jan 2023 Diag: Jonathan Hester

ISO

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 moderate amount of particulates present in the oil. The pH level of this fluid is within the acceptable limits. pH is 9.00. The condition of the oil is suitable for further service.

view report

06 Apr 2022 Diag: Jonathan Hester

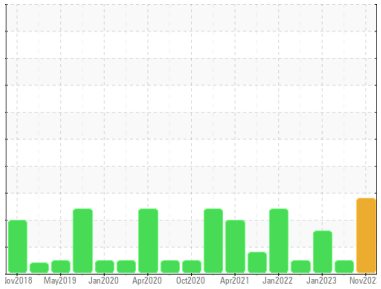
NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The pH level of this fluid is within the acceptable limits. The condition of the oil is acceptable for the time in service. pH is 10.00.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
PRESS 3 NON-FLAM
Component
Hydraulic System
Fluid
TEXACO HYDRAULIC SAFETY FLUID (--- GAL)

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 pH level of this fluid is within the acceptable limits. pH is 10.00. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0782217**	WC0690885	WC0612601
Sample Date		Client Info		**03 Nov 2023**	24 Jan 2023	03 Jan 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	NORMAL	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**0**	<1	<1
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	4
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**0**	0	0
Lead	ppm	ASTM D5185m	>20	**0**	<1	0
Copper	ppm	ASTM D5185m	>20	**0**	<1	0
Tin	ppm	ASTM D5185m	>20	**0**	0	<1
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	<1	<1

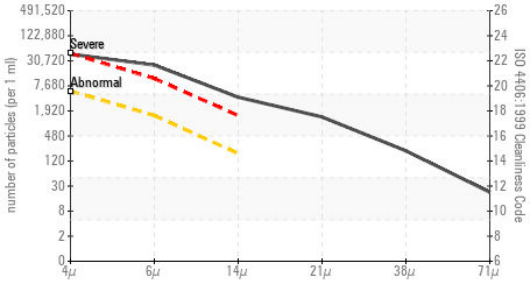
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	<1
Barium	ppm	ASTM D5185m		**0**	1	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m		**0**	5	1
Calcium	ppm	ASTM D5185m		**2**	4	4
Phosphorus	ppm	ASTM D5185m		**15**	21	12
Zinc	ppm	ASTM D5185m		**21**	16	15
Sulfur	ppm	ASTM D5185m		**0**	9	16

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**0**	<1	<1
Sodium	ppm	ASTM D5185m		**<1**	0	3
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	0
Water	%	ASTM D6304	>45	**36.1**	33.1	40.2
ppm Water	ppm	ASTM D6304	>450000	**361000**	331000	402000

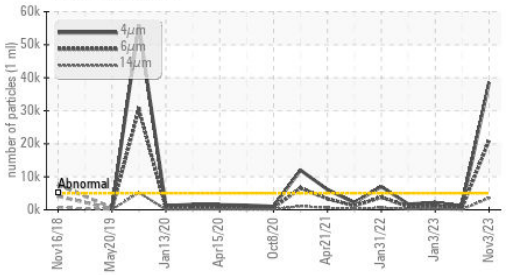
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**1.3**	1.3	1.3
Nitration	Abs/cm	*ASTM D7624		**128.9**	139.4	127.4
Sulfation	Abs/.1mm	*ASTM D7415		**102.4**	109.5	97.5

OIL ANALYSIS REPORT

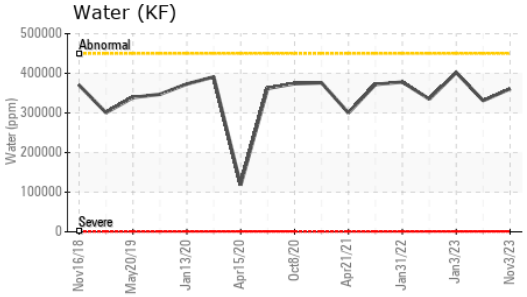
Particle Count



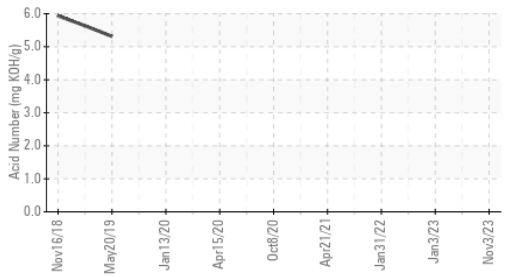
Particle Trend



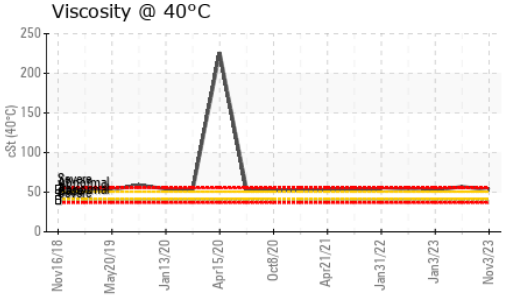
Water (KF)



Acid Number



Viscosity @ 40°C

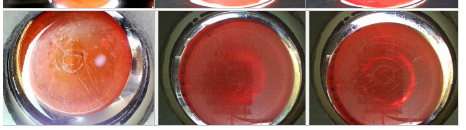


FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **38557**	1133	2221
Particles >6µm		ASTM D7647	>1300	▲ **21004**	617	1210
Particles >14µm		ASTM D7647	>160	▲ **3575**	105	▲ 206
Particles >21µm		ASTM D7647	>40	▲ **1204**	35	▲ 69
Particles >38µm		ASTM D7647	>10	▲ **186**	5	▲ 11
Particles >71µm		ASTM D7647	>3	▲ **19**	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/22/19**	17/16/14	▲ 18/17/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		**117.9**	128.8	112.3

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	**NONE**	NONE	NONE
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	>45	**0.2%**	0.2%	0.2%
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287		**10.0**	8.00	9.00
Visc @ 40°C	cSt	ASTM D445	41	**53.0**	56.9	52.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0782217 **Received** : 07 Nov 2023
Lab Number : 06001035 **Diagnosed** : 09 Nov 2023
Unique Number : 10729395 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: FT-IR, KF, pH)

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)

KAISER ALUMINUM
1901 REYMET RD
NORTH CHESTERFIELD, VA
US 23237
Contact: Yong Quan
Yong.Quan@kaiseraluminum.com
T: (804)743-6485
F: