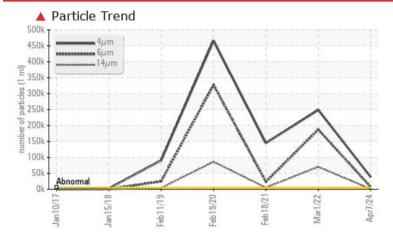


PROBLEM SUMMARY

Oil Cleanliness

Area **610 LYO [3027196] 14T03** Component Hydraulic System Fluid TEXACO AW 68 (18 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS Sample Status SEVERE ABNORMAL ABNORMAL Particles >4µm ASTM D7647 >5000 38205 ▲ 248665 ▲ 145182 Particles >6µm ASTM D7647 >1300 7186 187239 ▲ 23100 Particles >14µm ASTM D7647 >160 877 ▲ 70135 5125 Particles >21um ASTM D7647 >40 **372 31687 2616** Particles >38µm ASTM D7647 >10 38 **4575** 77

ISO 4406 (c) >19/17/14 A 22/20/17

▲ 25/25/23

▲ 24/22/20

Customer Id: TALCLA Sample No.: WC0907805 Lab Number: 06143036 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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 advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.				
Resample			?	Resample in 30-45 days to monitor this situation.				
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.				
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.				
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.				

HISTORICAL DIAGNOSIS



The 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 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.



18 Feb 2021 Diag: Don Baldridge

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.



19 Feb 2020 Diag: Jonathan Hester

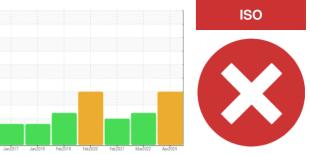
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



610 LYO [3027196] 14T03 Hydraulic System **TEXACO AW 68 (18 GAL)**

DIAGNOSIS

Area

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

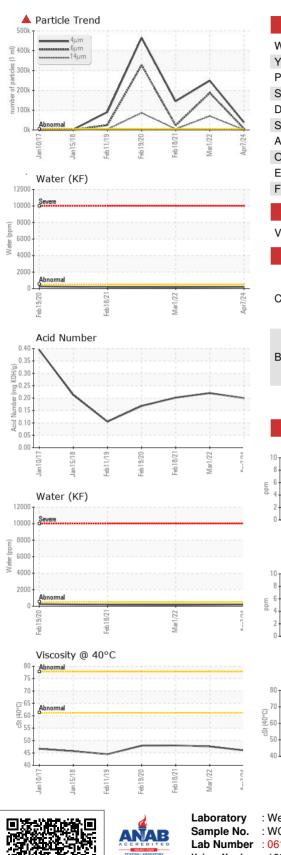
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0907805	WC0664334	WC0525125
Sample Date		Client Info		07 Apr 2024	01 Mar 2022	18 Feb 2021
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	6	2
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	2	4	2
Tin	ppm	ASTM D5185m	>10	<1	2	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		25	29	23
Phosphorus	ppm	ASTM D5185m		139	216	141
Zinc	ppm	ASTM D5185m		117	337	118
Sulfur	ppm	ASTM D5185m		2585	2095	1916
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	6	2
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m		7	0	0
Water	%	ASTM D6304	>0.05	0.021	0.016	0.018
ppm Water	ppm	ASTM D6304	>500	211	162.6	182.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 38205	4 248665	🔺 145182
Particles >6µm		ASTM D7647		<u> </u>	<u> </u>	<u> </u>
Particles >14µm		ASTM D7647	>160	<mark>/</mark> 877	A 70135	<mark>▲</mark> 5125
Particles >21µm		ASTM D7647	>40	A 372	A 31687	<u> </u>
Particles >38µm		ASTM D7647	>10	<mark>/</mark> 38	4 575	<u> </u>
Particles >71µm		ASTM D7647		3	1 77	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 22/20/17	▲ 25/25/23	▲ 24/22/20
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.20	0.22	0.202

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0.22 0.202 0.20 Contact/Location: KEN TERRY - TALCLA Page 3 of 4

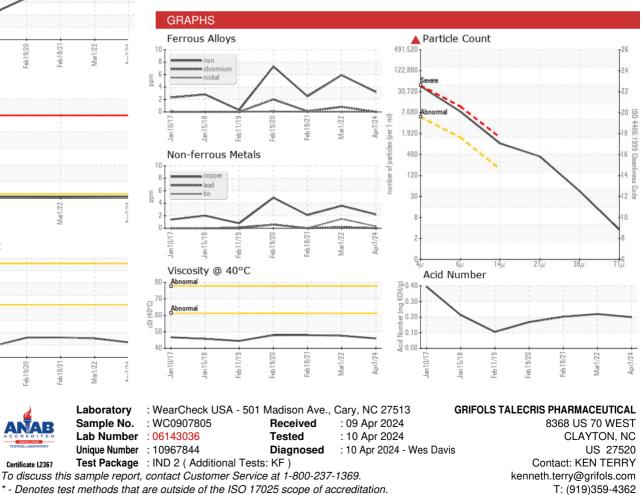


OIL ANALYSIS REPORT



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	NONE	LIGHT	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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		46.0	47.6	48.0
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color					H-Hr.	
Bottom						40)

В



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: TALCLA [WUSCAR] 06143036 (Generated: 04/10/2024 11:55:57) Rev: 1

Contact/Location: KEN TERRY - TALCLA

F: (919)359-4767