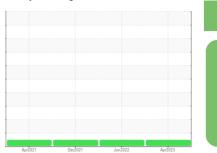


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id PIERCE 2585

Component Transmission (Auto)

BG PRODUCTS Universal Synthetic Trans Oil 312 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

The condition of the fluid is acceptable for the time in service.

Client Info	011 012 (Q10)		Parent			galoco	
Client Info	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 7803 7260 7505 Dil Age hrs Client Info 1276 733 823 Dil Age hrs Client Info Not Changd No	Sample Number		Client Info		WC0804009	WC0701509	WC0646965
Dil Age	Sample Date		Client Info		04 Apr 2023	16 Jun 2022	20 Dec 2021
Coli Changed Client Info Not Changed Not Changed Nort Ch	Machine Age	hrs	Client Info		7803	7260	7505
NORMAL NORMAL NORMAL NORMAL NORMAL	Oil Age	hrs	Client Info		1276	733	823
NORMAL NORMAL NORMAL NORMAL NORMAL	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >160 28 22 15 Chromium ppm ASTM D5185m >5 0 0 0 Nickel ppm ASTM D5185m >5 0 0 0 Silver ppm ASTM D5185m >5 0 0 0 Aluminum ppm ASTM D5185m >50 0 0 0 Aluminum ppm ASTM D5185m >50 0 1 2 Lead ppm ASTM D5185m >50 0 1 2 1 Copper ppm ASTM D5185m >10 0 -1 <1 1 Appearance ppm ASTM D5185m >10 0 -1 <1 <1 Appearance ppm ASTM D5185m 0	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >160 28 22 15 Chromium ppm ASTM D5185m >5 0 0 0 Nickel ppm ASTM D5185m >5 0 0 0 Silver ppm ASTM D5185m >5 0 0 0 Aluminum ppm ASTM D5185m >50 0 0 0 Lead ppm ASTM D5185m >50 0 <1	CONTAMINATION	J	method	limit/base	current	history1	history2
Chromium	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium ppm ASTM D5185m >5 0 0 0 Nickel ppm ASTM D5185m >5 0 <1 0 Titanium ppm ASTM D5185m >5 0 0 0 Silver ppm ASTM D5185m >5 0 0 0 Aluminum ppm ASTM D5185m >50 <1 2 0 Lead ppm ASTM D5185m >50 0 <1 <1 Copper ppm ASTM D5185m >50 0 <1 <1 Antimony ppm ASTM D5185m >10 0 <1 <1 Antimony ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>160	28	22	15
Nickel	Chromium	ppm	ASTM D5185m	>5	0	0	0
Description	Nickel		ASTM D5185m	>5	0	<1	0
Silver							
ASTM D5185m S-50 C-1 C	Silver			>5			
Lead							
Description							
Trin							
Antimony	• •						
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 320 383 307 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 21 0 0 Magnesium ppm ASTM D5185m 256 337 250 Phosphorus ppm ASTM D5185m 594 696 629 Zinc ppm ASTM D5185m 0 14 0 Sulfur ppm ASTM D5185m 2213 2384 1782 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 6				>10			
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 320 383 307 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m <1	•						
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 320 383 307 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 2 0 0 Magnesium ppm ASTM D5185m 256 337 250 Phosphorus ppm ASTM D5185m 594 696 629 Zinc ppm ASTM D5185m 0 14 0 Sulfur ppm ASTM D5185m 2213 2384 1782 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 6 4 Sodium ppm ASTM D5185m >20 0 0 <1							
Boron		ppm			-		
Barium	ADDITIVES		method	limit/base		•	•
Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m <1	Boron	ppm					
Manganese ppm ASTM D5185m <1 0 0 Magnesium ppm ASTM D5185m 2 0 0 Calcium ppm ASTM D5185m 256 337 250 Phosphorus ppm ASTM D5185m 594 696 629 Zinc ppm ASTM D5185m 0 14 0 Sulfur ppm ASTM D5185m 2213 2384 1782 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 6 4 Sodium ppm ASTM D5185m >20 0 0 <1	Barium	ppm	ASTM D5185m		0		0
Magnesium ppm ASTM D5185m 2 0 0 Calcium ppm ASTM D5185m 256 337 250 Phosphorus ppm ASTM D5185m 594 696 629 Zinc ppm ASTM D5185m 0 14 0 Sulfur ppm ASTM D5185m 2213 2384 1782 CONTAMINANTS method limit/base current history1 history2 CONTAMINANTS method limit/base current <td>Molybdenum</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td>0</td> <td>0</td>	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium ppm ASTM D5185m 256 337 250 Phosphorus ppm ASTM D5185m 594 696 629 Zinc ppm ASTM D5185m 0 14 0 Sulfur ppm ASTM D5185m 2213 2384 1782 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 6 4 Sodium ppm ASTM D5185m >20 0 0 <1	Manganese	ppm	ASTM D5185m		<1	0	0
Phosphorus ppm ASTM D5185m 594 696 629 Zinc ppm ASTM D5185m 0 14 0 Sulfur ppm ASTM D5185m 2213 2384 1782 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 6 4 Sodium ppm ASTM D5185m >20 0 0 <1	Magnesium	ppm	ASTM D5185m		2	0	0
Zinc ppm ASTM D5185m 0 14 0 Sulfur ppm ASTM D5185m 2213 2384 1782 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 6 4 Sodium ppm ASTM D5185m >20 0 0 <1 Potassium ppm ASTM D5185m >20 0 0 <1 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	Calcium	ppm	ASTM D5185m		256	337	250
Sulfur ppm ASTM D5185m 2213 2384 1782 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 6 4 Sodium ppm ASTM D5185m >20 0 0 <1	Phosphorus	ppm	ASTM D5185m		594	696	629
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 6 6 4 Sodium ppm ASTM D5185m 6 6 6 1 Potassium ppm ASTM D5185m >20 0 0 < 1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE LIGHT LIGHT Yellow Metal scalar *Visual NONE NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML	Zinc	ppm	ASTM D5185m		0	14	0
Silicon	Sulfur	ppm	ASTM D5185m		2213	2384	1782
Sodium ppm ASTM D5185m 6 6 1 Potassium ppm ASTM D5185m >20 0 0 <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 0 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE LIGHT LIGHT Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE 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 NORML	Silicon	ppm	ASTM D5185m	>20	6	6	4
Potassium ppm ASTM D5185m >20 0 0 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE LIGHT LIGHT Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE 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 NORML	Sodium	ppm	ASTM D5185m		6	6	1
White Metal scalar *Visual NONE NONE LIGHT LIGHT 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	Potassium		ASTM D5185m	>20	0	0	<1
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORML	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE 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	White Metal						
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	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORML	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORML	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance scalar *Visual NORML NORML NORML NORML NORML NORML NORML NORML NORML	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water			>0.1		NEG	NEG

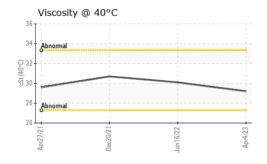
IDON PASINSKI - TOMESARNO

NEG

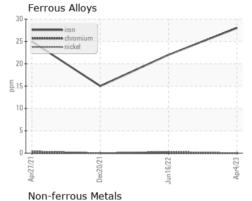
scalar *Visual

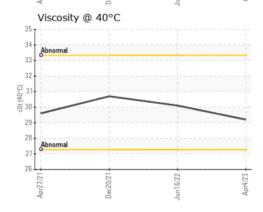


OIL ANALYSIS REPORT



Visc @ 40°C cSt	4 OT1 4 D 4 4 F				history2
_	ASTM D445		29.2	30.1	30.7
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image







Certificate 12367

Laboratory Sample No.

: WC0804009 Lab Number : 05819247 Unique Number : 10427330 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Apr 2023 **Tested**

: 18 Apr 2023 Diagnosed

: 18 Apr 2023 - Jonathan Hester

TOWN OF CARY 420 JAMES JACKSON AVENUE CARY, NC US 27513

Contact: BRANDON PASINSKI brandon.pasinski@townofcary.org

T: (919)469-4098

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)

F: (919)380-6420