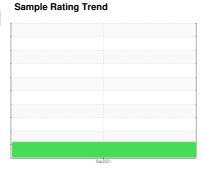


OIL ANALYSIS REPORT

ORT







Machine Id 10681

Component

Transmission (Auto)

NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

△ Contamination

Moderate concentration of visible dirt/debris present in the fluid. There is a moderate amount of visible silt present in the sample.

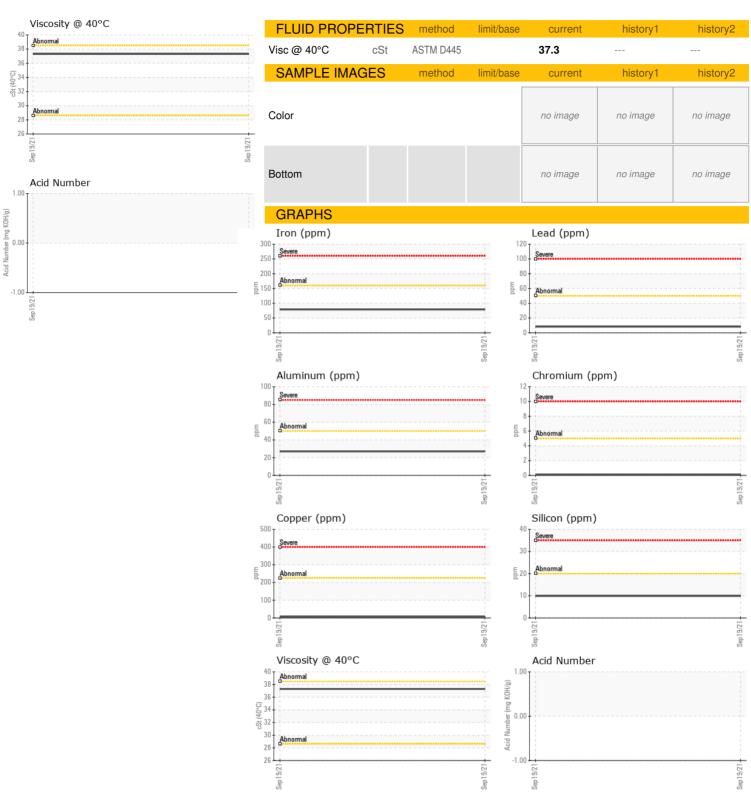
Fluid Condition

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

SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info GFL0012975 Sample Date Client Info 19 Sep 2021 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status MARGINAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >160 79					Sep2021		
Sample Number Client Info GFL0012975 Sample Date Client Info 19 Sep 2021 Client Info 0 Client Info 0 Client Info 0 Client Info 0 Client Info N/A MARGINAL Client Info N/A MARGINAL Client Info N/A MARGINAL Client Info N/A MARGINAL Client Info N/A MARGINAL Client Info N/A MARGINAL Client Info N/A MARGINAL Client Info N/A MARGINAL Marginal Marginal Client Info ppm ASTM 05185m Client ppm ASTM 05185m ADITIVES method imit/base current history1 history2 ADDITIVES method imit/base current history1 history2 Marganese ppm ASTM 05185m Calcium ppm ASTM 05185m C	CAMPLE INCORM	ATION					111
Sample Date	SAMPLE INFORMA	AHON	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0	Sample Number						
Oil Age hrs Client Info N/A Sample Status Client Info N/A WEAR METALS method limit/base current history1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >56 <1 Chromium ppm ASTM D5185m >5 <1 Nickel ppm ASTM D5185m >5 0 Silver ppm ASTM D5185m >5 0 Alaminum ppm ASTM D5185m >50 27 Alead ppm ASTM D5185m >50 8 Copper ppm ASTM D5185m >10 2 Tin ppm ASTM D5185m 0 Cadadium					19 Sep 2021		
Client Info							
WEAR METALS	-	hrs			· ·		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >160 79 Chromium ppm ASTM D5185m >5 <1	-		Client Info		,		
Chromium	Sample Status				MARGINAL		
Description	WEAR METALS		method	limit/base	current	history1	history2
Nickel	lron p	ppm	ASTM D5185m	>160	79		
Silver	Chromium	ppm	ASTM D5185m	>5	<1		
Silver	Nickel p	ppm	ASTM D5185m	>5	0		
ASTM D5185m SO	Titanium	ppm	ASTM D5185m		<1		
Lead	Silver p	ppm	ASTM D5185m	>5	0		
Copper	Aluminum p	ppm	ASTM D5185m	>50	27		
ASTM D5185m S225 6			ASTM D5185m	>50	8		
Antimony ppm ASTM D5185m >10 2			ASTM D5185m	>225	6		
Artimony			ASTM D5185m	>10	2		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 140 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 17 Magnesium ppm ASTM D5185m 188 Calcium ppm ASTM D5185m 315 Phosphorus ppm ASTM D5185m 26 Sulfur ppm ASTM D5185m 762 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 20 10			ASTM D5185m		0		
ADDITIVES			ASTM D5185m		0		
Boron ppm ASTM D5185m D0					-		
Boron	ADDITIVES		method	limit/base	current	history1	history2
Barium	Boron r	maa	ASTM D5185m		140		
Molybdenum			ASTM D5185m		0		
Manganese ppm ASTM D5185m <1					2		
Magnesium ppm ASTM D5185m 17 Calcium ppm ASTM D5185m 88 Phosphorus ppm ASTM D5185m 26 Zinc ppm ASTM D5185m 762 Sulfur ppm ASTM D5185m 20 10 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 10 Sodium ppm ASTM D5185m >20 <1					- <1		
Calcium ppm ASTM D5185m 88 Phosphorus ppm ASTM D5185m 26 Sulfur ppm ASTM D5185m 762 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 3 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m 20 <1							
Phosphorus ppm ASTM D5185m 315 Sulfur ppm ASTM D5185m 26 Sulfur ppm ASTM D5185m 762 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 10 Sodium ppm ASTM D5185m >20 1 Potassium ppm ASTM D5185m >20 <1	,						
Zinc							
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 10 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 <1	· ·						
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 10 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 <1							
Silicon				11 11 11	-		
Sodium						nistory1	history2
Potassium ppm ASTM D5185m >20 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE MODER Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG				>20	_		
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Precipitate scalar *Visual NONE MODER Silt scalar *Visual NONE MODER Debris scalar *Visual NONE MODER Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Codor scalar *Visual >0.1 NEG				00	_		
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE MODER Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Codor scalar *Visual >0.1 NEG	'	ppm	ASTM D5185m	>20	<1		
Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE MODER Debris scalar *Visual NONE MODER Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE MODER Debris scalar *Visual NONE MODER Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG							
Silt scalar *Visual NONE ▲ MODER Debris scalar *Visual NONE ▲ MODER Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG							
Debris scalar *Visual NONE MODER Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG		scalar					
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Silt	scalar	*Visual	NONE	▲ MODER		
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG		scalar	*Visual	NONE			
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Sand/Dirt s	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG		



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: GFL0012975 : 05354623 : 9668716 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Sep 2021 : 22 Sep 2021 Diagnosed Diagnostician : Doug Bogart

GFL Environmental - 084 - Clarksville

699 Jack Miller Boulevard Clarksville, TN US 37042

Contact: ROBERT THIBAULT

robert.thibault@gflenv.com

T: (931)552-7276 F: (931)572-9674

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)