

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id OR1974 Component

Transmission (Manual)

TDTO SAE 30 (148 LTR)

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.

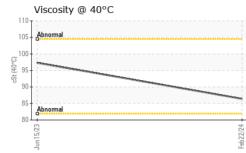
Fluid Condition

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

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113372	GFL0087386	
Sample Date		Client Info		22 Feb 2024	15 Jun 2023	
Machine Age	hrs	Client Info		20139	20139	
Oil Age	hrs	Client Info		500	1000	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	6	13	
Chromium	ppm	ASTM D5185(m)	>5	0	0	
Nickel	ppm	ASTM D5185(m)	>5	<1	0	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>7	0	0	
Aluminum	ppm	ASTM D5185(m)	>25	0	1	
Lead	ppm	ASTM D5185(m)	>45	0	<1	
Copper	ppm	ASTM D5185(m)	>225	1	2	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		2	4	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)		2	<1	
Manganese	ppm	ASTM D5185(m)		0	<1	
Magnesium	ppm	ASTM D5185(m)		51	14	
Calcium	ppm	ASTM D5185(m)		3052	3147	
Phosphorus	ppm	ASTM D5185(m)		1011	1122	
Zinc	ppm	ASTM D5185(m)		1188	1280	
Sulfur	ppm	ASTM D5185(m)		4844	9504	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>125	2	4	
Sodium	ppm	ASTM D5185(m)		1	2	
Potassium	ppm	ASTM D5185(m)	>20	0	0	



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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
	Precipitate	scalar	Visual*	NONE	NONE	NONE	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	VLITE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
/24	Appearance	scalar	Visual*	NORML	NORML	NORML	
Feb22/24	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
	Free Water	scalar	Visual*	>0.1	NEG	NEG	
	FLUID PROP		method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)		86.4	97.3	
	SAMPLE IMA	GES	method	limit/base	current	history1	history2
	Color						no image
	Bottom						no image
	GRAPHS						
	Iron (ppm)				Lead (ppm)		
	400 Severe			100	0		
	E 200 - Abnormal			- E 50	Abnormal		
	0) L		
	Jun 15/23			Feb22/24	Jun 15/23		
	μη			Feb	2		
	Aluminum (ppm))			Chromium (p	opm)	
	60 Severe			15	Smunn		
	Abnormal			E ¹⁰	Ahnormal		
	0				, T		
	2/23			2/24	5/23		
	Jun 15/23			Feb22/24	Jun 15/23		
	Copper (ppm)				Silicon (ppm))	
	600 T			300			
	400 - Abnormal			E 200	Abnormal		
	200			° 100	1		
	12/23 0			124	/23		
	Jun 15/			Feb22/24	Jun15/23		
	⊣ Viscosity @ 40°C			LL.			
	VISCOSILY @ 40°C	, 		4000	Additives		
					C	110	
	t 90			E 3000) - zasassassa zinc		
	Abpormal)		
	80			2/2	Jun15/23		
				Feb22/24	Jun		
Package	80	Recei Teste Diagr	ived : 2 id : 2 nosed : 2	ngton, ON L71 1 Mar 2024 1 Mar 2024 1 Mar 2024 - W	_ 5H9 GFL En	Moo Contact: Cha	

To discuss this samp Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

CALA

ISO 17025:2017 Accredited Laboratory

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