

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

LLOYD F (S/N 024248)

Gearbox Fluid

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is ISO 220 Gear Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0813118		
Sample Date		Client Info		24 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		5		
Iron	ppm	ASTM D5185(m)	>200	42		
Chromium	ppm	ASTM D5185(m)	>15	<1		
Nickel	ppm	ASTM D5185(m)	>15	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	<1		
Lead	ppm	ASTM D5185(m)	>100	9		
Copper	ppm	ASTM D5185(m)	>200	<1		
Tin	ppm	ASTM D5185(m)	>25	0		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		13		
Barium	ppm	ASTM D5185(m)		1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		1		
Calcium	ppm	ASTM D5185(m)		2		
Phosphorus	ppm	ASTM D5185(m)		233		
Zinc	ppm	ASTM D5185(m)		14		
Sulfur	ppm	ASTM D5185(m)		10761		
Lithium	ppm	ASTM D5185(m)		1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	11		
Sodium	ppm	ASTM D5185(m)		6		
Potassium	ppm	ASTM D5185(m)	>20	<1		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.43		



Acid 0.50

(B/H0,40 B/H0X B/H0,30

nper 0.20 Pio 0.10 0.00 Jun24/24

> 300 Abnom 280

(0.05) (0.06) 240 230 220

> Abnom 200 180 Jun24/24

PQ 250

Severe 200 150 D

Abnom 100 50 0 Jun24/24

OIL ANALYSIS REPORT

		VISUAL		method	limit/base	current	history1	history2
		White Metal	scalar	Visual*	NONE	VLITE		
		Yellow Metal	scalar	Visual*	NONE	NONE		
		Precipitate	scalar	Visual*	NONE	NONE		
		Silt	scalar	Visual*	NONE	NONE		
		Debris	scalar	Visual*	NONE	VLITE		
		Sand/Dirt	scalar	Visual*	NONE	NONE		
	/24	Appearance	scalar	Visual*	NORML	NORML		
	Jun24/24	Odor	scalar	Visual*	NORML	NORML		
	2	Emulsified Water	scalar	Visual*	>0.2	NEG		
cosity @ 40°C		Free Water	scalar	Visual*	20.L	NEG		
ormal								
		FLUID PROPER		method	limit/base	current	history1	history2
		Visc @ 40°C	cSt	ASTM D7279(m)		219		
omal		SAMPLE IMAGE	S	method	limit/base	current	history1	history2
	Jun24/24	Color					no image	no image
	μη							
		Bottom					no image	no image
		GRAPHS						
mal		Ferrous Alloys				PQ		
		⁵⁰ I			220			
		40 - iron			200	Severe		
	VCIV	E 30 - management nickel			180			
	c1	E 20-						
		10			160			
					140 St.			
		un24/24			PD 150			
		->			루 문 100	Abnormal		
		Non-ferrous Meta	ls			1		
		10 copper			80	•		
		6 announcementer			60			
					40			
		2			20			
		0						
		Jun24/24			Jun24/24	4/24		
		1			Juni	Jun24/24		
		٦٢			,			
		Viscosity @ 40°C				Acid Number		
		Viscosity @ 40°C				Acid Number		
		Viscosity @ 40°C			。 0.50 夏 0.40	Acid Number		
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		Viscosity @ 40°C			() () () () () () () () () () () () () (Acid Number		
		Viscosity @ 40°C			(a) 0.50 Hoy Bu 0.30 Participanti Participan	Acid Number		
		Viscosity @ 40°C			(C).50 (C)HOX 0.40 (C)HOX 0.30 	Acid Number		
		Viscosity @ 40°C			(C).50 (C)HOX 0.40 (C)HOX 0.30 	Acid Number		
		Viscosity @ 40°C			(a) 0.50 Hoy Bu 0.30 Participanti Participan	Acid Number		
	Laboratory	Viscosity @ 40°C			(B)HOX Du (B)HOX	Acid Number	JAYLOR	
	Laboratory Sample No.	Viscosity @ 40°C	Recei	i ved : 02	(0,50 (0,40) (0,40) (0,20) (0,	Acid Number	JAYLOR	R.R.
ISO 17025:2017	Laboratory Sample No. Lab Number	Viscosity @ 40°C	Recei Teste	ived : 02 d : 04	(0,0.50) (0,00)	Acid Number	JAYLOR	FABRICATII R.R. ORTON, (
	Laboratory Sample No. Lab Number Unique Number	Viscosity @ 40°C	Recei	ived : 02 d : 04	(0,50 (0,40) (0,40) (0,20) (0,	Acid Number		R.R. ORTON, O CA LON 1
ISO 17025:2017 Accredited Laboratory	Laboratory Sample No. Lab Number Unique Number Test Package	Viscosity @ 40°C	Recei Teste Diagn	ived : 02 id : 02 nosed : 04	agton, ON L7L 2 Jul 2024 4 Jul 2024 - We	Acid Number	Cont	R.R. ORTON, (CA LON 1 act: Kevin Ke
ISO 17025:2017 Accredited Laboratory TO discuss thi	Laboratory Sample No. Lab Number Unique Number Test Package is sample report,	Viscosity @ 40°C	Recei Teste Diagn	ived : 02 id : 04 nosed : 04 800-268-213	agton, ON L7L 2 Jul 2024 4 Jul 2024 - Wo 1.	Acid Number	Conta KKe	R.R. ORTON, O CA L0N 1

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Contact/Location: Kevin Kelly - FABORT Page 2 of 2