

# **OIL ANALYSIS REPORT**

#### Area [450327063] Machine Id **TB-62258 FIRE PUMP B** Component

Gearbox Fluid {not provided} (--- GAL)

## DIAGNOSIS

#### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your 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.

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Sample Rating Trend



NORMAL

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC		
Sample Date		Client Info		05 Mar 2024		
Machine Age	days	Client Info		0		
Oil Age	days	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>150	<1		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>5	0		
Lead	ppm	ASTM D5185(m)	>65	0		
Copper	ppm	ASTM D5185(m)	>80	<1		
Tin	ppm	ASTM D5185(m)	>8	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)		<1		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		<1		
Calcium	ppm	ASTM D5185(m)		4		
Phosphorus	ppm	ASTM D5185(m)		23		
Zinc	ppm	ASTM D5185(m)		3		
Sulfur	ppm	ASTM D5185(m)		2684		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	0		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	0		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.12		



28 26 Abnormal

24 18 16. Abnormal

> 14 Mar5/24

> 14 Mar5/C

300

Abnormal 200 180. Mar5/24

PQ 250

Sever 200 150 Ы

# **OIL ANALYSIS REPORT**

	VISUAL		method	limit/base	current	history1	history2
bnomal	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Precipitate	scalar	Visual*	NONE	NONE		
	Silt	scalar	Visual*	NONE	NONE		
bnormal	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Ouoi	scalar	Visual*	NORML	NORML		
íscosity @ 100°C	Emulsified Water	scalar	Visual*	>0.2	NEG		
lhnomal	Free Water	scalar	Visual*		NEG		
\bnormal	FLUID PROPI	ERTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)		209		
	Visc @ 100°C	cSt	ASTM D7279(m)		18.5		
\bnormal	Viscosity Index (VI)	Scale	ASTM D2270*		97		
	SAMPLE IMA	GES	method	limit/base	current	history1	history2
	Mar5/24						
					20021		
′iscosity @ 40°C	Color					no image	no image
Abnormal	-				2		
	Bottom				Geal	no image	no image
Abnormal	GRAPHS						I
					DO		
	Ferrous Alloys			22	PQ		
	8 iron			20	0 - Severe		
Q	E 6 normanickel			18	0-		
	2			16	0		
Severe	0 <sup>4</sup>			4 72	0-		
	Mar5/24			PD Mar5/24	1		
Abnormal	. Non-ferrous Meta	als		- 10	0 - Abnormal		
	<sup>10</sup> T				0		
	8 - copper			6	0-		
				4	0 -		
	2				0		
	5/24			5/24	74		74
	Mar5/24			Mar5/24	Mar5/24		Mar5/24
	Viscosity @ 40°C				Acid Number	r	
	300 - Abnormal			() 0.1 Bug 0.1	5		
	ට 250 දු			Ê0.1	0 -		
	ට 250 - 9 € හි 200 - <b>Abnormal</b>			ية ق 0.0	5-		
	150			0.0 Acid Number	0		
	Mar5/24			Mar5/24	Mar5/24		Mar5/24 -
	Mai			Mar	Mai		Mar
		7 <b>-</b> A · ·				o	N
CALA Laborator		5 Appleb Rece		1gton, ON L7 1 Apr 2024	L 5H9	Suncor - Terra Scotia Centre, 2	
	per : 02625799	Teste		2 Apr 2024			St. John`s, NI
	ber : 5750918	Diagu	nosed : 03	Apr 2024 - Kev	/in Marson		CA A1C 1B
	age : MAR 2 (Additional T						act: Josh Hyne

est 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.

Contact/Location: Josh Hynes - TERHAM

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