

# **OIL ANALYSIS REPORT**

Sample Rating Trend



# ANGELUS CL1 SEAMER (S/N 791205)

Component Circulating Oil Fluid GEAR OIL LS 80W90 (35 LTR)

#### DIAGNOSIS

### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL LS 80W90. Please confirm.

# 🔺 Wear

Copper ppm levels are abnormal.

## Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

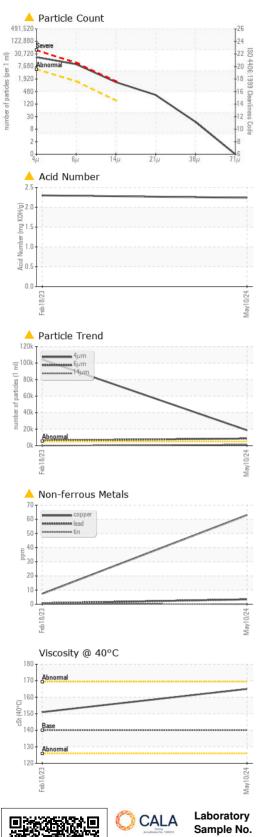
## Fluid Condition

The AN level is above the recommended limit. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0737082	WC0737075	
Sample Date		Client Info		10 May 2024	18 Feb 2023	
Machine Age	mths	Client Info		0	0	
Oil Age	mths	Client Info		2	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				ABNORMAL	SEVERE	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	
Iron	ppm	ASTM D5185(m)	>20	25	46	
Chromium	ppm	ASTM D5185(m)	>20	0	<1	
Nickel	ppm	ASTM D5185(m)	>20	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	
Lead	ppm	ASTM D5185(m)	>20	3	<1	
Copper	ppm	ASTM D5185(m)	>20	<b>6</b> 3	7	
Tin	ppm	ASTM D5185(m)	>20	0	<1	
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)	150	1	3	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)		0	0	
Manganese	ppm	ASTM D5185(m)		0	<1	
Magnesium	ppm	ASTM D5185(m)	10	<1	0	
Calcium	ppm	ASTM D5185(m)	70	7	14	
Phosphorus	ppm	ASTM D5185(m)	2000	545	546	
Zinc	ppm	ASTM D5185(m)	50	57	10	
Sulfur	ppm	ASTM D5185(m)	20000	1000	521	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1	<1	
Sodium	ppm	ASTM D5185(m)		2	7	
Potassium	ppm	ASTM D5185(m)	>20	2	4	

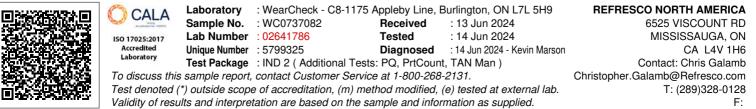


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FLUID CLEANLIN	VESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>18625</b>	▲ 104355	
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>6248</b>	
Particles >14µm		ASTM D7647	>160	<u> </u>	80	
Particles >21µm		ASTM D7647	>40	<u> </u>	13	
Particles >38µm		ASTM D7647	>10	🛑 15	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 21/20/17	<b>4</b> /20/13	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>A</b> 2.24	<b>2</b> .30	
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	NONE	
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	
Appearance	scalar	Visual*	NORML	NORML	🔺 LAYRD	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*		NEG	.5%	
Free Water	scalar	Visual*		NEG	▲ 1%	
FLUID PROPERT	<b>FIES</b>	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	140	165	151	
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					104 675	no image

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Report Id: REF652MIS [WCAMIS] 02641786 (Generated: 06/14/2024 12:58:44) Rev: 1

Contact/Location: Chris Galamb - REF652MIS Page 2 of 2

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