

# **OIL ANALYSIS REPORT**

### A3 Machine Id LUFKIN PWIP A Gearbox-42001 Component

**Gearbox** Fluid

GEAR OIL SAE 80W90 (11 GAL)

# DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

## Wear

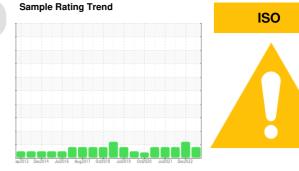
All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present 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	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0771980	WC0378397	WC0670624
Sample Date		Client Info		07 Jan 2024	13 Dec 2022	21 Sep 2022
	mths	Client Info		0	0	0
	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	6	3	2
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	0
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	0
	ppm	ASTM D5185m	>25	0	0	0
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	1	2	1
Barium	ppm	ASTM D5185m	200	1	0	0
Molybdenum	ppm	ASTM D5185m	12	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	12	2	<1	0
Calcium	ppm	ASTM D5185m	150	<1	0	0
	ppm	ASTM D5185m	1650	340	324	295
	ppm	ASTM D5185m	125	0	0	0
Sulfur	ppm	ASTM D5185m	22500	19210	20191	21122
CONTAMINANTS		method	limit/base	current	history1	history2
	ppm	ASTM D5185m		<1	<1	<1
	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>6</b> 7188	<b>6</b> 1050	42315
Particles >6µm		ASTM D7647	>5000	4805	<b>A</b> 7905	1893
Particles >14µm		ASTM D7647	>640	28	159	6
Particles >21µm		ASTM D7647	>160	6	22	1
Particles >38µm		ASTM D7647	>40	0	1	0

ASTM D7647 >10

Particles >71µm Oil Cleanliness 0

▲ 23/20/14

0

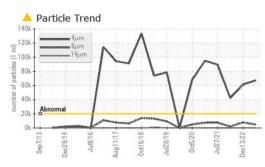
▲ 23/18/10

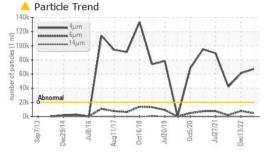
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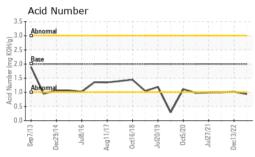
ISO 4406 (c) >21/19/16 **A 23/19/12** 

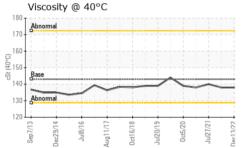


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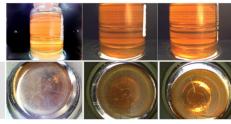


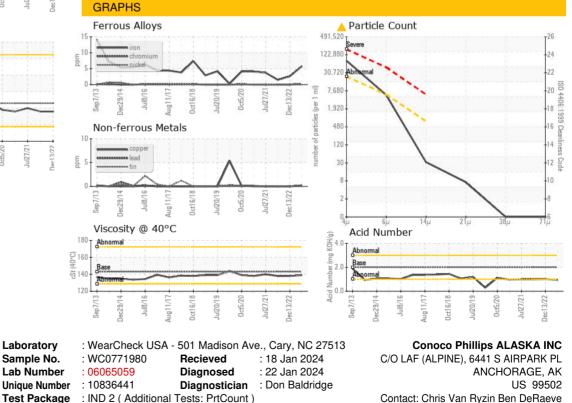


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	0.94	1.02	1.00
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	139	138	138
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color

Bottom





Certificate L2367 Test Package : IND 2 (Additional Tests: PrtCount) 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)

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