



Component Gearbox Fluic GEAR OIL LS 80W90 (--- GAL)

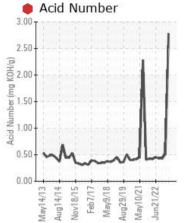
PERFORMANCE

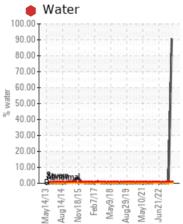
UNDER

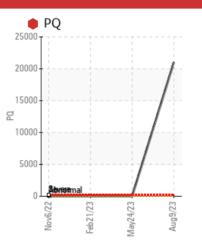
**YANKEE GRBX** 

TM 6

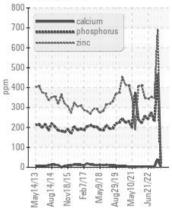
## COMPONENT CONDITION SUMMARY







#### Additives



## RECOMMENDATION

We advise that you check for the source of water entry. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please note that the oil was too thick to perform some of the normal laboratory tests.

PROBLEMATIC 1	FEST RE	SULTS				
Sample Status				SEVERE	NORMAL	ABNORMAL
PQ		ASTM D8184		<b>e</b> 21003	18	15
Boron	ppm	ASTM D5185m	150	<b>A</b> 0	0	0
Calcium	ppm	ASTM D5185m	70	<b>A</b> 0	40	2
Phosphorus	ppm	ASTM D5185m	2000	<b>A</b> 13	468	231
Zinc	ppm	ASTM D5185m	50	<u> </u>	689	348
Water	%	ASTM D6304	>0.2	90.6	0.007	0.009
ppm Water	ppm	ASTM D6304	>2000	906000	73.7	95.9
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>e</b> 2.78	0.51	0.43
Emulsified Water	scalar	*Visual	>0.2	• 0.2%	NEG	NEG

Customer Id: KIMMOBTM6 Sample No.: RP0034418 Lab Number: 05932861 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.			
Resample			?	We recommend an early resample to monitor this condition.			
Alert			?	Please note that the oil was too thick to perform some of the normal laboratory tests.			
Check Water Access			?	We advise that you check for the source of water entry.			

## HISTORICAL DIAGNOSIS



24 May 2023 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report



## 21 Feb 2023 Diag: Don Baldridge

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





## 06 Nov 2022 Diag: Angela Borella

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**



## GEAR OIL LS 80W90 (--- GAL)

## DIAGNOSIS

## Recommendation

We advise that you check for the source of water entry. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please note that the oil was too thick to perform some of the normal laboratory tests.

## 🛑 Wear

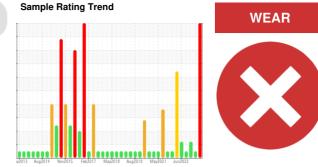
The very high ferrous density (PQ) index indicates that severe wear is occurring.

### Contamination

There is a high concentration of water present in the oil.

### Fluid Condition

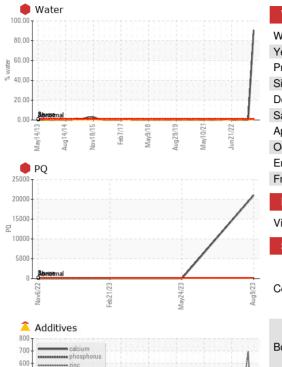
The oil is no longer serviceable.



		y2013 Aug20			Jun2022	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0034418	RP0023571	RP0023420
Sample Date		Client Info		09 Aug 2023	24 May 2023	21 Feb 2023
Machine Age	wks	Client Info		0	0	0
Oil Age	wks	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		<b>e</b> 21003	18	15
Iron	ppm	ASTM D5185m	>200	11	3	11
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	2	1
Tin	ppm	ASTM D5185m	>25	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	150	0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	10	<1	2	8
Calcium	ppm	ASTM D5185m	70	<u> </u>	40	2
Phosphorus	ppm	ASTM D5185m	2000	<b>1</b> 3	468	231
Zinc	ppm	ASTM D5185m	50	<u> </u>	689	348
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	1	2
Sodium	ppm	ASTM D5185m		0	1	3
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304		90.6	0.007	0.009
ppm Water	ppm	ASTM D6304	>2000	906000	73.7	95.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		5518	19663
Particles >6µm		ASTM D7647	>5000		1012	4960
Particles >14µm		ASTM D7647	>640		150	<b>A</b> 848
Particles >21µm		ASTM D7647	>160		37	<u> </u>
Particles >38µm		ASTM D7647	>40		2	1
Particles >71µm		ASTM D7647	>10		0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16		20/17/14	<b>a</b> 21/19/17
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.78	0.51	0.43
	mgnong	, 10 1 11 20040		- 2.10	0.01	0.70



# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	biotory 1	biotory?
VISUAL		method	IIIIII/Dase	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	LIGHT	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	• 0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	140	0.8	211	212
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color						

Bottom



