

# **OIL ANALYSIS REPORT**



# Machine Id

170640 Component Luffing Winch Fluid GEAR OIL SAE 80W90 (--- 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. We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. 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 SAE 80W90. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. NOTE: Test values may be askew due high concentration of free water present in sample.

## 🔺 Wear

Iron ppm levels are abnormal.

### Contamination

Free water present.

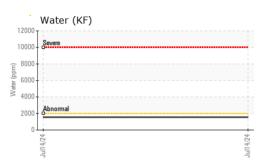
#### Fluid Condition

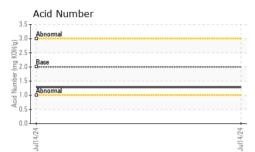
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

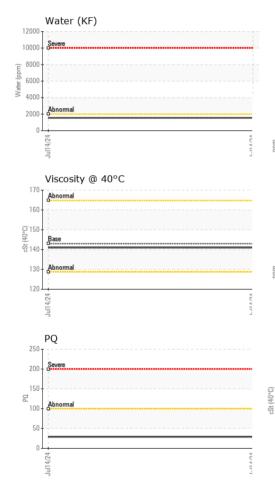
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		PP		
Sample Date		Client Info		14 Jul 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		29		
Iron	ppm	ASTM D5185(m)	>30	<u> </u>		
Chromium	ppm	ASTM D5185(m)	>2	0		
Nickel	ppm	ASTM D5185(m)	>2	2		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>5	<1		
Lead	ppm	ASTM D5185(m)	>70	0		
Copper	ppm	ASTM D5185(m)	>65	21		
Tin	ppm	ASTM D5185(m)	>9	1		
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)	400	150		
Barium	ppm	ASTM D5185(m)	200	<1		
Molybdenum	ppm	ASTM D5185(m)	12	0		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	12	1		
Calcium	ppm	ASTM D5185(m)	150	6		
Phosphorus	ppm	ASTM D5185(m)	1650	981		
Zinc	ppm	ASTM D5185(m)	125	47		
Sulfur	ppm	ASTM D5185(m)	22500	22966		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	<1		
Sodium	ppm	ASTM D5185(m)	>170	2		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.2	0.154		
ppm Water	ppm	ASTM D6304*	>2000	1547		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	2.00	1.28		

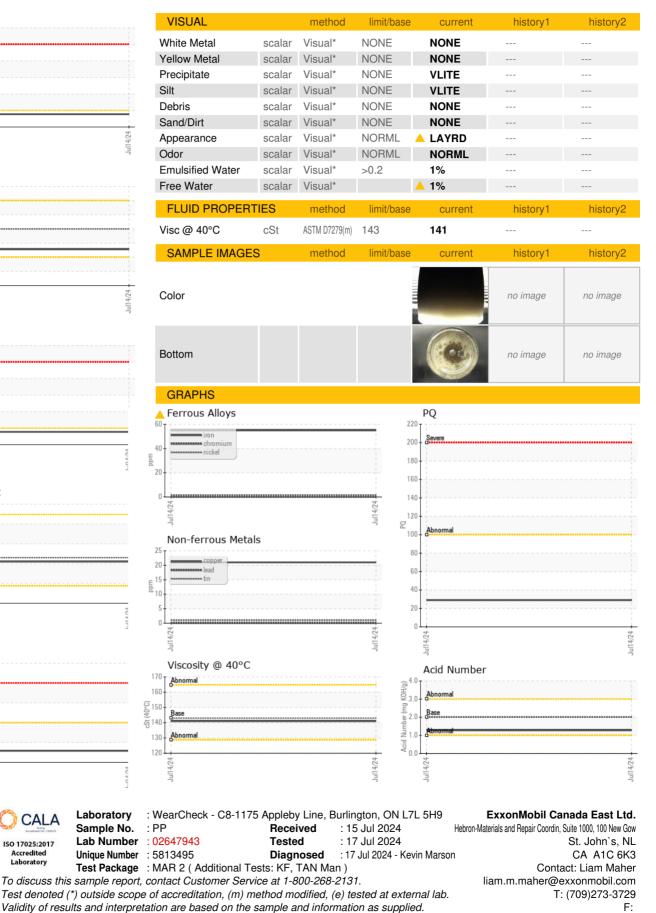


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Report Id: EXXSTJ [WCAMIS] 02647943 (Generated: 07/17/2024 15:52:17) Rev: 1

CALA

ISO 17025:2017 Accredited

Laboratory

Laboratory

Sample No.

Lab Number

Contact/Location: Liam Maher - EXXSTJ Page 2 of 2