

PROBLEM SUMMARY

Sample Rating Trend

ISO

Autora

Machine Id **170640**

Auxiliary Hoist

GEAR OIL LS 80W90 (--- GAL)

COMPONENT CONDITION SUMMARY



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. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL LS 80W90. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Customer Id: EXXSTJ
Sample No.: PP
Lab Number: 02647941
Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

PROBLEMATIC TEST RESULTS						
Sample Status			SEVERE			
Particles >4μm	ASTM D7647	>5000	131421			
Particles >6µm	ASTM D7647	>1300	59790			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	24/23/15			

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		
Resample			?	Resample in 30-45 days to monitor this situation.		
Alert			?	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.		
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.		
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.		
Check Seals			?	Check seals and/or filters for points of contaminant entry.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 170640 **Auxiliary Hoist**

GEAR OIL LS 80W90 (--- GAL)

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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. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL LS 80W90. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

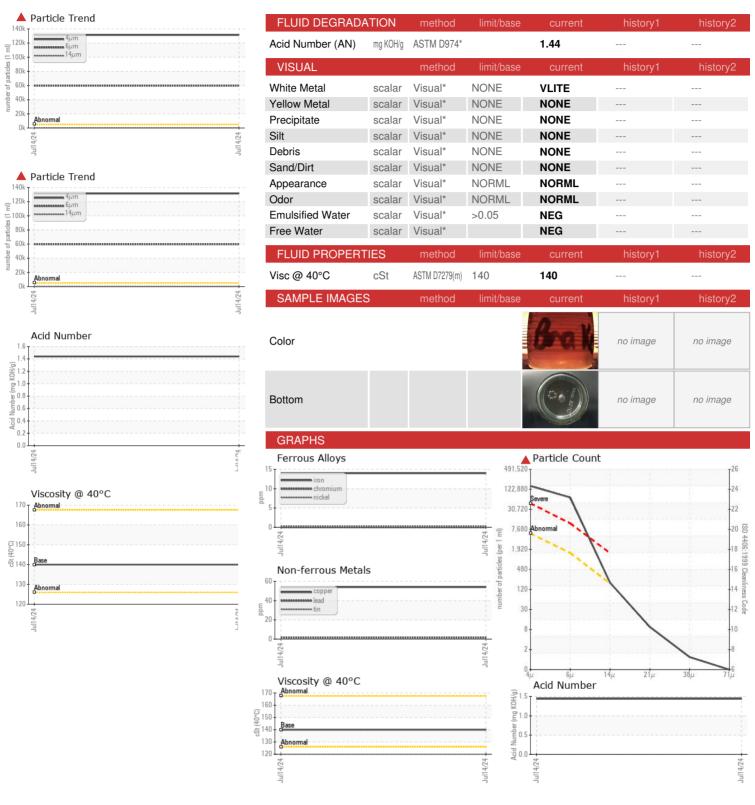
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

				Jul2024		
SAMPLE INFORM	MATION	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				SEVERE		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>171	14		
Chromium	ppm	ASTM D5185(m)	>4	0		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>7	<1		
Lead	ppm	ASTM D5185(m)	>87	1		
Copper	ppm	ASTM D5185(m)	>95	54		
Tin	ppm	ASTM D5185(m)	>5	<1		
Antimony	ppm	ASTM D5185(m)		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
ADDITIVES		memou				
Boron	ppm	ASTM D5185(m)	150	159		
	ppm			159 0		
Boron		ASTM D5185(m)				
Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)		0		
Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0		
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	150	0 0 <1	 	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	150	0 0 <1 <1		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185(m)	150 10 70	0 0 <1 <1 3		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185(m)	150 10 70 2000	0 0 <1 <1 3 976		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	150 10 70 2000 50	0 0 <1 <1 3 976		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	150 10 70 2000 50	0 0 <1 <1 3 976 13 23480		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm	ASTM D5185(m)	150 10 70 2000 50 20000	0 0 -<1 -<1 3 976 13 23480 4		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm	ASTM D5185(m) MASTM D5185(m) MASTM D5185(m)	150 10 70 2000 50 20000	0 0 -1 -1 3 976 13 23480 4 		history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm	ASTM D5185(m)	150 10 70 2000 50 20000 limit/base >32	0 0 <1 <1 3 976 13 23480 4 current		 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185(m) MASTM D5185(m) MASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	150 10 70 2000 50 20000 limit/base >32 >20	0 0 0 <1 <1 3 976 13 23480 4 current 0 1		history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm	ASTM D5185(m) METHOD ASTM D5185(m)	150 10 70 2000 50 20000 limit/base >32 >20 limit/base	0 0 0 <1 <1 3 976 13 23480 4 current 0 1 <1		history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm	ASTM D5185(m) METHOD ASTM D5185(m)	150 10 70 2000 50 20000 limit/base >32 >20 limit/base >5000	0 0 0 <1 <1 3 976 13 23480 4 current 0 1 <1 current 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm	ASTM D5185(m) method ASTM D5185(m)	150 10 70 2000 50 20000 limit/base >32 >20 limit/base >5000 >1300	0 0 <1 <1 3 976 13 23480 4 current 0 1 <1 current ▲ 131421 ▲ 59790	history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm	ASTM D5185(m) METHOD ASTM D5185(m) METHOD ASTM D5185(m)	150 10 70 2000 50 20000 limit/base >32 >20 limit/base >5000 >1300 >160	0 0 <1 <1 3 976 13 23480 4 current 0 1 <1 current ▲ 131421 ▲ 59790 168		history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm	ASTM D5185(m) METHOD ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647	150 10 70 2000 50 20000 limit/base >32 >20 limit/base >5000 >1300 >160 >40	0 0 0 <1 <1 3 976 13 23480 4 current 0 1 <1 current ▲ 131421 ▲ 59790 ● 168 8		history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm	ASTM D5185(m) METHOD ASTM D5185(m) METHOD ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	150 10 70 2000 50 20000 limit/base >32 >20 limit/base >5000 >1300 >160 >40 >10	0 0 0 <1 <1 3 976 13 23480 4 current 0 1 <1 current ▲ 131421 ▲ 59790 ● 168 8 1		history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm	ASTM D5185(m) METHOD ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647	150 10 70 2000 50 20000 limit/base >32 >20 limit/base >5000 >1300 >160 >40	0 0 0 <1 <1 3 976 13 23480 4 current 0 1 <1 current ▲ 131421 ▲ 59790 ● 168 8		history2 history2



OIL ANALYSIS REPORT





CALA
Tent 1 10001

ISO 17025:2017
Accredited
Laboratory

Laboratory : Weard Sample No. : PP

Sample No. : PP Lab Number : 02647941 Unique Number : 5813493

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : PP Received : 15 Jul 2024

Received : 15 Jul 2024

Tested : 16 Jul 2024

Diagnosed : 16 Jul 2024 -

Unique Number : 5813493 Diagnosed : 16 Jul 2024 - Kevin Marson Test Package : MAR 2 (Additional Tests: Bottom, TAN Man)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test 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.

ExxonMobil Canada East Ltd.

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