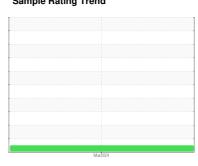


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **370-2** Component

Swing Drive

GEAR OIL LS 80W90 (--- GAL)

	VО	

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL LS 80W90. Please confirm.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

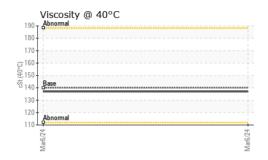
Fluid Condition

The condition of the oil is acceptable for the time in service.

Machine Age hrs Client Info 500							
Sample Number Client Info WC0890762					Mar2024		
Sample Date Client Info 06 Mar 2024	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		WC0890762		
Oil Age hrs Client Info N/A	Sample Date		Client Info		06 Mar 2024		
Contamped Citient Info N/A	Machine Age	hrs	Client Info		500		
Sample Status	Oil Age	hrs	Client Info		0		
Water WC Method So.2 NEG So.2 NEG So.3 WEAR METALS method limit/base current history1 history2 WEAR METALS method limit/base current history1 history2 liron ppm ASTM DS185(m) >400 53 So.3 So.3	Oil Changed		Client Info		N/A		
Water WC Method >0.2 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM DS185(m) >400 53 Chromium ppm ASTM DS185(m) >10 0 Nickel ppm ASTM DS185(m) >10 0 Titanium ppm ASTM DS185(m) >25 2 Aluminum ppm ASTM DS185(m) >50 <1 Aluminum ppm ASTM DS185(m) >0 <1 Aluminum ppm ASTM DS185(m) 0	Sample Status				NORMAL		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5188(m) >400 53 Chromium ppm ASTM D5188(m) >10 0 Nickel ppm ASTM D5188(m) >10 0 Silver ppm ASTM D5188(m) 0 Aluminum ppm ASTM D5188(m) >25 2 Lead ppm ASTM D5188(m) >50 <1	CONTAMINATIO	N	method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.2	NEG		
Chromium ppm ASTM D5188(m) > 10 <1 Nickel ppm ASTM D5185(m) > 10 0 Titanium ppm ASTM D5185(m) > 1 Silver ppm ASTM D5185(m) > 25 2 Aluminum ppm ASTM D5185(m) > 50 < 1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185(m)	>400	53		
Titanium	Chromium	ppm	ASTM D5185(m)	>10	<1		
Silver	Nickel	ppm	ASTM D5185(m)	>10			
Aluminum	Titanium	ppm	ASTM D5185(m)		0		
Lead	Silver	ppm	ASTM D5185(m)		<1		
Copper ppm ASTM D5185(m) >200 23 Tin ppm ASTM D5185(m) >10 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) 150 438 Barium ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 798 Calcium ppm ASTM D5185(m) 2000 1344	Aluminum	ppm	ASTM D5185(m)	>25	2		
Tin ppm ASTM D5185(m) >10 1 Antimony ppm ASTM D5185(m) >5 0	Lead	ppm	ASTM D5185(m)	>50	<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) 150 438 Barium ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) <1	Copper	ppm	ASTM D5185(m)	>200	23		
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) 150 438 Barium ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 70 54 Calcium ppm ASTM D5185(m) 2000 1344 Phosphorus ppm ASTM D5185(m) 2000 146 Sulfur ppm ASTM D5185(m) 20000 21494	Tin	ppm	ASTM D5185(m)	>10	1		
Beryllium	Antimony	ppm	ASTM D5185(m)	>5	0		
Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 150 438 Barium ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) <1	Vanadium	ppm	ASTM D5185(m)		0		
ADDITIVES method limit/base current history1 history2	Beryllium	ppm	ASTM D5185(m)		0		
Boron ppm ASTM D5185(m) 150 438	Cadmium	ppm	ASTM D5185(m)		0		
Barium ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 10 798 Magnesium ppm ASTM D5185(m) 70 54 Calcium ppm ASTM D5185(m) 2000 1344 Phosphorus ppm ASTM D5185(m) 50 16 Zinc ppm ASTM D5185(m) 20000 21494 Sulfur ppm ASTM D5185(m) <1 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >50 8 Sodium ppm ASTM D5185(m) 5 </th <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) <1 Magnesium ppm ASTM D5185(m) 10 798 Calcium ppm ASTM D5185(m) 70 54 Phosphorus ppm ASTM D5185(m) 2000 1344 Zinc ppm ASTM D5185(m) 50 16 Sulfur ppm ASTM D5185(m) 20000 21494 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >50 8 Sodium ppm ASTM D5185(m) 5	Boron	ppm	ASTM D5185(m)	150	438		
Manganese ppm ASTM D5185(m) <1 Magnesium ppm ASTM D5185(m) 10 798 Calcium ppm ASTM D5185(m) 70 54 Phosphorus ppm ASTM D5185(m) 2000 1344 Zinc ppm ASTM D5185(m) 50 16 Sulfur ppm ASTM D5185(m) 20000 21494 Lithium ppm ASTM D5185(m) <1	Barium	ppm	ASTM D5185(m)		2		
Magnesium ppm ASTM D5185(m) 10 798 Calcium ppm ASTM D5185(m) 70 54 Phosphorus ppm ASTM D5185(m) 2000 1344 Zinc ppm ASTM D5185(m) 50 16 Sulfur ppm ASTM D5185(m) 20000 21494 Lithium ppm ASTM D5185(m) <1	Molybdenum	ppm	ASTM D5185(m)		0		
Calcium ppm ASTM D5185(m) 70 54 Phosphorus ppm ASTM D5185(m) 2000 1344 Zinc ppm ASTM D5185(m) 50 16 Sulfur ppm ASTM D5185(m) 20000 21494 Lithium ppm ASTM D5185(m) <1	Manganese	ppm	ASTM D5185(m)		<1		
Phosphorus ppm ASTM D5185(m) 2000 1344 Zinc ppm ASTM D5185(m) 50 16 Sulfur ppm ASTM D5185(m) 20000 21494 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >50 8 Sodium ppm ASTM D5185(m) 5	<u> </u>	ppm	ASTM D5185(m)	10			
Zinc ppm ASTM D5185(m) 50 16 Sulfur ppm ASTM D5185(m) 20000 21494 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >50 8 Sodium ppm ASTM D5185(m) 5	Calcium	ppm	ASTM D5185(m)	70	54		
Sulfur ppm ASTM D5185(m) 20000 21494 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >50 8 Sodium ppm ASTM D5185(m) 5	•	ppm					
Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >50 8 Sodium ppm ASTM D5185(m) 5	Zinc	ppm	ASTM D5185(m)	50	-		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >50 8 Sodium ppm ASTM D5185(m) 5	Sulfur	ppm	. ,	20000			
Silicon ppm ASTM D5185(m) >50 8 Sodium ppm ASTM D5185(m) 5	Lithium	ppm	ASTM D5185(m)		<1		
Sodium ppm ASTM D5185(m) 5	CONTAMINANTS	;	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>50	8		
Potassium ppm ASTM D5185(m) >20 2	Sodium	ppm	ASTM D5185(m)		5		
	Potassium	ppm	ASTM D5185(m)	>20	2		



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	140	137		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2

SAMPLE IMAGES	metriod	iiiiii/base	current	riistory i	riistoryz
Color				no image	no image
Bottom				no image	no image
GRAPHS					





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Test Package : MOB 1

: WC0890762 Lab Number : 02621821 Unique Number : 5746940

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received **Tested**

: 13 Mar 2024 : 13 Mar 2024 Diagnosed

: 13 Mar 2024 - Wes Davis

7367 Wellington Rd. 30, Unit A Guelph, ON CA NOM 2TO

Contact: CG Equipment CG Guelph cory@cgequipment.com

T: (519)826-0550 F: (519)837-2055

C.G. EQUIPMENT

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.