## **PROBLEM SUMMARY**



WL0089 Component **Hydraulic System** 

NOT GIVEN (--- GAL)

### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS								
Sample Status			ABNORMAL					
Particles >4µm	ASTM D7647	>5000	<u> </u>					
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>22/17/13</b>					

Customer Id: GFL629 Sample No.: GFL0096122 Lab Number: 06006973 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Resample			?	We recommend an early resample to monitor this condition.			
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.			

### HISTORICAL DIAGNOSIS



### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id WL0089 Component Hydraulic System Fluid NOT GIVEN (--- GAL)

#### DIAGNOSIS

#### Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate 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.

		methou	iiiiiii/base	Current	TIStory	Thistoryz
Sample Number		Client Info		GFL0096122		
Sample Date		Client Info		09 Nov 2023		
Machine Age	hrs	Client Info		8632		
Oil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	maa	ASTM D5185m	>20	17		
Chromium	mag	ASTM D5185m	>10	3		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	nnm	ASTM D5185m		-		
Silver	nnm	ASTM D5185m		0		
Aluminum	nnm	ASTM D5185m	>10	1		
Lead	nom	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	1		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ACTM DE105m	>10	0		
Cadmium	ppin	AGTIM DE105m		0		
Cadmium	ppm	ASTM D5185m		U		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		45		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		6		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		26		
Calcium	ppm	ASTM D5185m		1332		
Phosphorus	ppm	ASTM D5185m		655		
Zinc	ppm	ASTM D5185m		855		
Sulfur	ppm	ASTM D5185m		1985		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	nom	ASTM D5185m	>20	9		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	2		
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4um		ASTM D7647	>5000	<b>31788</b>		
Particles >6um		ASTM D7647	>1300	917		
Particles >14um		ASTM D7647	>160	41		
Particles >21um		ASTM D7647	>40	9		
Particles \38um		ASTM D7647	>10	0		
Particles <71um		ASTM D7647	>3	0		
		ISO 4406 (c)	<19/17/1 <i>/</i>	22/17/13		
		100 4400 (0)	/13/11/14	_ 22/11/13		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.62		



Acid Number

0.70

0.60 (B/HO) Ê 0.40

# **OIL ANALYSIS REPORT**

method

limit/base

current

history1

history2

VISUAL







ළ 0.30 0.20 Acid 0.10 0.00 Viscosity @ 40°C 52 50 48 () 46 š 47 40 Al 38 Vov9/73

> 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. T: (231)624-0848 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Vov9/23 -

: 14 Nov 2023

: 15 Nov 2023

: Wes Davis

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Diagnostician

Received

Diagnosed

0.40

0.20 Acid

0.00

Certificate L2367

(40°C) .45

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Laboratory

Sample No.

Lab Number

Unique Number

35

Abnormal 40

: GFL0096122

Test Package : FLEET (Additional Tests: PrtCount)

: 06006973

: 10740735

Submitted By: Mitch Hershberger

Contact: MITCH HERSHBERGER

GFL Environmental - 629 - Northern A1

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