

PROBLEM SUMMARY

Sample Rating Trend

ISO

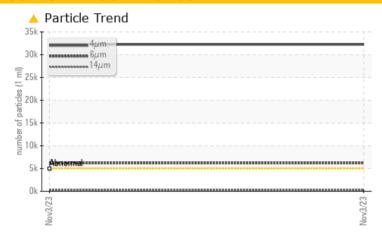
920092-260371

Component

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL				
Particles >4µm	ASTM D7647	>5000	△ 32236				
Particles >6µm	ASTM D7647	>1300	6201				
Particles >14µm	ASTM D7647	>160	^ 269				
Particles >21µm	ASTM D7647	>40	6 0				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u>22/20/15</u>				

Customer Id: GFL837 **Sample No.:** GFL0098602 Lab Number: 06006265 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		
Change Filter			?	We recommend you service the filters on this component.		
Resample			?	We recommend an early resample to monitor this condition.		
Alert			?	The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.		
Information Required			?	The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Acid Number (AN) mg KOH/g ASTM D8045 0.57

Sample Rating Trend



920092-260371 Component

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.

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

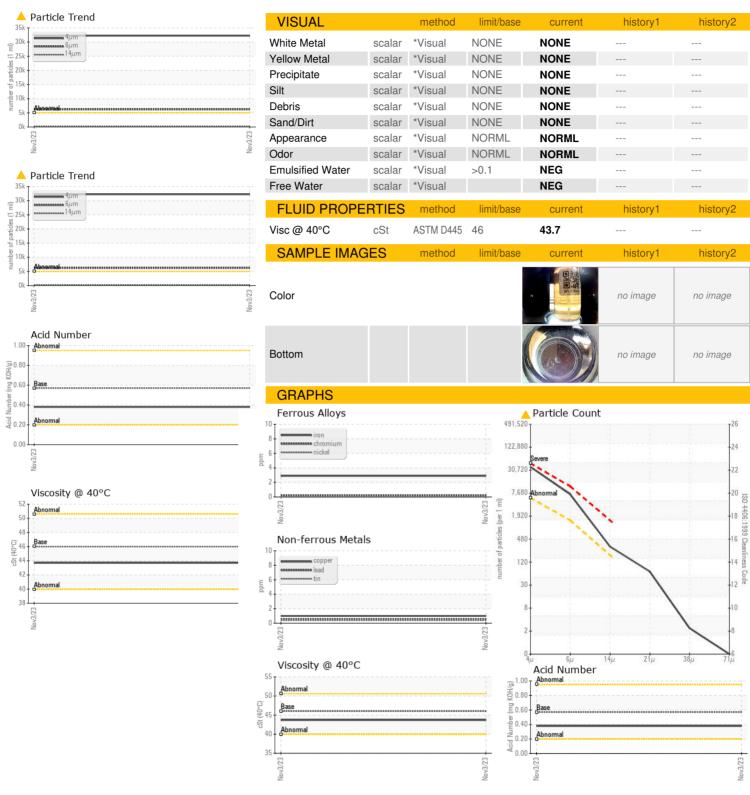
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

				Nov2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098602		
Sample Date		Client Info		03 Nov 2023		
Machine Age	hrs	Client Info		23015		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>75	1		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	<1		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	25	10		
Calcium	ppm	ASTM D5185m	200	71		
Phosphorus	ppm	ASTM D5185m	300	340		
Zinc	ppm	ASTM D5185m	370	424		
Sulfur	ppm	ASTM D5185m	2500	846		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	▲ 32236		
Particles >6µm		ASTM D7647	>1300	<u>^</u> 6201		
Particles >14μm		ASTM D7647	>160	^ 269		
Particles >21µm		ASTM D7647	>40	<u>^</u> 60		
Particles >38µm		ASTM D7647	>10	2		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/20/15</u>		
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2

0.38



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0098602 : 06006265

: 10740027

Received : 13 Nov 2023 Diagnosed Diagnostician

: 14 Nov 2023 : Wes Davis Test Package : FLEET (Additional Tests: PrtCount)

Certificate L2367 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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701 Contact: BRYAN SWANSON

bryanswanson@gflenv.com T:

Report Id: GFL837 [WUSCAR] 06006265 (Generated: 11/15/2023 14:33:19) Rev: 1

Contact/Location: BRYAN SWANSON - GFL837

F: