





GFL218 833048 Hydraulic System

Sample Rating Trend





DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. 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. An inspection for the source(s) of wear may be warranted at this time. Resample in 30-45 days to monitor this situation. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF).

Wear

Moderate concentration of visible metal present.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

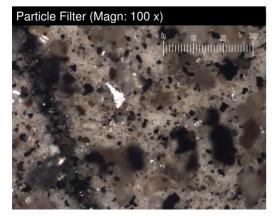
JREX IVIV 32 (G	iAL)			May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0120086		
Sample Date		Client Info		02 May 2024		
Machine Age	hrs	Client Info		1917		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>40	9		
Chromium	ppm	ASTM D5185(m)	>5	<1		
Nickel	ppm	ASTM D5185(m)	>2	0		

WEAR METAL	.5	method	iimii/base	current	nistory i	nistory2
Iron	ppm	ASTM D5185(m)	>40	9		
Chromium	ppm	ASTM D5185(m)	>5	<1		
Nickel	ppm	ASTM D5185(m)	>2	0		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>8	2		
Lead	ppm	ASTM D5185(m)	>5	0		
Copper	ppm	ASTM D5185(m)	>20	3		
Tin	ppm	ASTM D5185(m)	>2	0		
Antimony	ppm	ASTM D5185(m)	>2	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)	0	0		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)	1	0		
Magnesium	ppm	ASTM D5185(m)	0	1		
Calcium	ppm	ASTM D5185(m)	50	19		
Phosphorus	ppm	ASTM D5185(m)	330	317		
Zinc	ppm	ASTM D5185(m)	430	379		
Sulfur	ppm	ASTM D5185(m)	760	729		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/hase	current	history1	history2

Silicon	ppm	ASTM D5185(m)	>20	6		
Sodium	ppm	ASTM D5185(m)		5		
Potassium	ppm	ASTM D5185(m)	>20	4		
FLUID CLEANL	.INESS	method	limit/base	curren	t history1	history2
Particles >4μm		ASTM D7647	>5000	177063		
Particles >6µm		ASTM D7647	>1300	117568		
Particles >14μm		ASTM D7647	>160	15003		
Particles >21µm		ASTM D7647	>40	3737		
Particles >38μm		ASTM D7647	>10	4 349		
Particles >71µm		ASTM D7647	>3	A 30		

ISO 4406 (c) >19/17/14 **25/24/21**

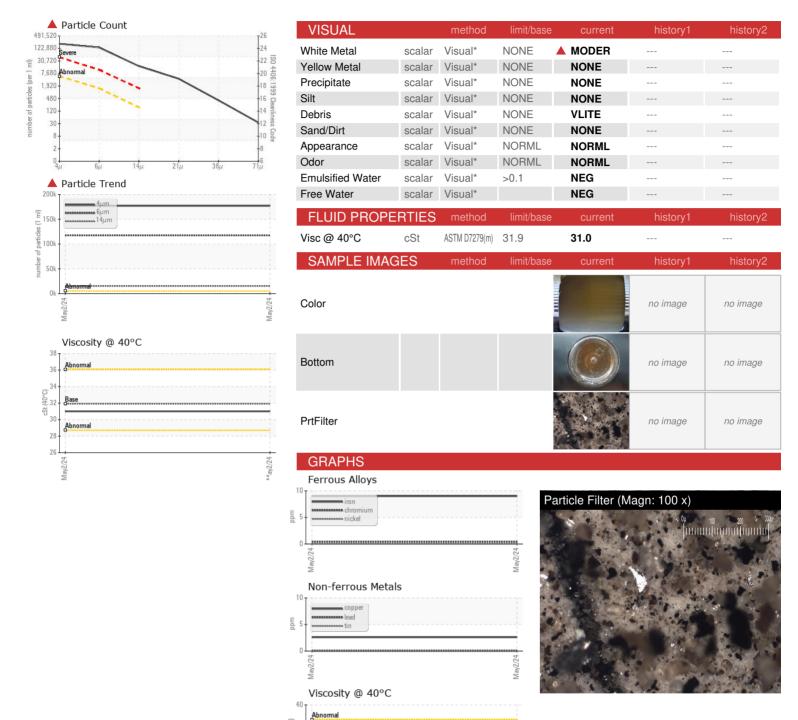


Report Id: GFL225 [WCAMIS] 02633527 (Generated: 05/16/2024 07:44:38) Rev: 1

Oil Cleanliness



OIL ANALYSIS REPORT







Laboratory

₹ 30

Sample No. Lab Number : 02633527 Unique Number : 5774680

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0120086

Diagnosed

Received : 06 May 2024 Tested : 07 May 2024

: 07 May 2024 - Kevin Marson

20 Brydon Drive Etobicoke, ON CA M9W 5R6

GFL Environmental - 225 - COT(D2)

Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, PrtCount, PrtFilterContact: Kim McCall To discuss this sample report, contact Customer Service at 1-800-268-2131. kmccall@gflenv.com

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.

T: F: