**WEAR CONTAMINATION FLUID CONDITION** 

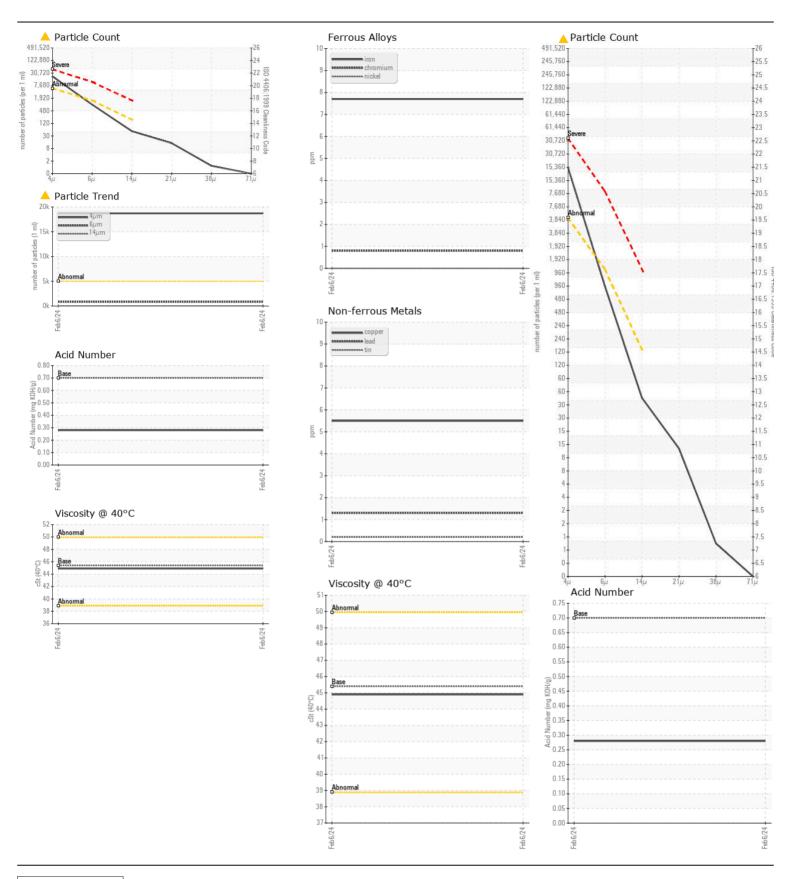
**NORMAL ABNORMAL NORMAL** 

Machine Id 3023A

Component Hydraulic System

PETRO CANADA HYDREX MV 46 (--- GAL)

Test Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed	hrs	Method Client Info Client Info Client Info	Limit/Abn	Current GFL0108091	History1	History2
Sample Date Machine Age Oil Age Filter Age Oil Changed		Client Info		GFL0108091		
Machine Age Oil Age Filter Age Oil Changed			<b> </b>			
Oil Age Filter Age Oil Changed		(:lient Into		06 Feb 2024		
Filter Age Oil Changed	nrs			24263		
Oil Changed		Client Info		0		
_	hrs	Client Info		0		
		Client Info		Not Changd		
_		Client Info		Changed		
Sample Status				ABNORMAL		
Iron	mqq	ASTM D5185m	>20	8		
Chromium		ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium		ASTM D5185m		<1		
Silver		ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	<1		
Lead	ppm	ASTM D5185m	>10	1		
Copper	ppm	ASTM D5185m	>75	6		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Ciliaan		ACTM DE10E	00			
	ppm					
•						
			<u> </u>	-		
	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		
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG		
<b></b>						
			0			
•						
-						
•						
. ,						
	Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Silicon Potassium Water Particles >4µm Particles >51µm Particles >38µm Particles >71µm Oil Cleanliness Silt Debris Sand/Dirt Appearance Odor	Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Water Particles > 4µm Particles > 5µm Particles > 14µm Particles > 38µm Particles > 71µm Oil Cleanliness Silt scalar Silt scalar Sodium ppm Codor scalar Emulsified Water scalar Sodium ppm Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Phosphorus Zinc ppm Sulfur Acid Number (AN) mg KOH/g	Chromium ppm ASTM D5185m Nickel ppm ASTM D5185m Titanium ppm ASTM D5185m Silver ppm ASTM D5185m Aluminum ppm ASTM D5185m Lead ppm ASTM D5185m Lead ppm ASTM D5185m Copper ppm ASTM D5185m Tin ppm ASTM D5185m Vanadium ppm ASTM D5185m White Metal scalar *Visual Yellow Metal scalar *Visual  Silicon ppm ASTM D5185m Potassium ppm ASTM D5185m Water WC Method Particles >4µm ASTM D7647 Particles >6µm ASTM D7647 Particles >21µm ASTM D7647 Particles >71µm ASTM D7647 Particles >71µm ASTM D7647 Particles >71µm ASTM D7647 Oil Cleanliness ISO 4406 (c) Silt scalar *Visual Sand/Dirt scalar *Visual Sand D5185m Appearance ppm ASTM D5185m Boron ppm ASTM D5185m Barium ppm ASTM D5185m Manganese ppm ASTM D5185m Manganese ppm ASTM D5185m	Chromium         ppm         ASTM D5185m         >10           Nickel         ppm         ASTM D5185m         >10           Titanium         ppm         ASTM D5185m         >10           Silver         ppm         ASTM D5185m         >10           Aluminum         ppm         ASTM D5185m         >10           Lead         ppm         ASTM D5185m         >10           Copper         ppm         ASTM D5185m         >10           Vanadium         ppm         ASTM D5185m         >10           Vanadium         ppm         ASTM D5185m         >10           Valicon         ppm         ASTM D5185m         >10           Valicon         ppm         ASTM D5185m         >20           Potassium         ppm         ASTM D5185m         >20           Potassium         ppm         ASTM D5185m         >20           Patricles >4µm         ASTM D7647         >5000         1           Particles >6µm         ASTM D7647         >1300         1           Particles >21µm         ASTM D7647         >10         2           Particles >38µm         ASTM D7647         >10         ASTM D7647         >10           Particles >71	Chromium         ppm         ASTM D5185m         >10         <1           Nickel         ppm         ASTM D5185m         >10         0           Titanium         ppm         ASTM D5185m         <1	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         <1





Laboratory Sample No. Unique Number: 10875561

: GFL0108091 Lab Number : 06088116

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

Diagnosed

: 14 Feb 2024 : 14 Feb 2024 - Wes Davis

: 13 Feb 2024

GFL Environmental - 837 - Harrison TS 22820 S State Route 291 Harrisonville, MO

US 64701 Contact: JEREMY BROWN

jeremyb@gflenv.com

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)

T:

F: