

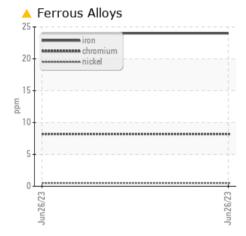
## **PROBLEM SUMMARY**

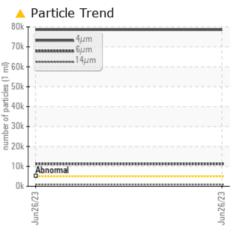
Sample Rating Trend WEAR

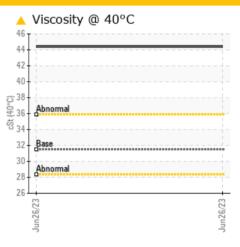


WL0098 Component Hydraulic System Fluid PETRO CANADA HYDREX AW 32 (--- GAL)

### COMPONENT CONDITION SUMMARY







#### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: Hydraulic filter and fluid change )

#### **PROBLEMATIC TEST RESULTS**

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL			
Iron	ppm	ASTM D5185m	>20	<u> </u>			
Particles >4µm		ASTM D7647	>5000	<b>A</b> 78575			
Particles >6µm		ASTM D7647	>1300	<u> </u>			
Particles >14µm		ASTM D7647	>160	<b>4</b> 910			
Particles >21µm		ASTM D7647	>40	<b>A</b> 350			
Particles >38µm		ASTM D7647	>10	<b>A</b> 33			
Particles >71µm		ASTM D7647	>3	<u> </u>			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 23/21/17			
Visc @ 40°C	cSt	ASTM D445	31.5	<u> </u>			
VISC @ 40°C	CSI	ASTM D445	31.5	<u> </u>			

Customer Id: GFL625 Sample No.: GFL0077524 Lab Number: 05886132 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

RECOMMENDED	RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		

### HISTORICAL DIAGNOSIS



### **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id WL0098 Component

Hydraulic System

PETRO CANADA HYDREX AW 32 (--- GAL)

DIAGNOSIS	SAMPLE INFOR		method	limit/base	current	history 1	history 2
Recommendation	Sample Number		Client Info		GFL0077524		
Oil and filter change at the time of sampling has	Sample Date		Client Info		26 Jun 2023		
been noted. Resample at the next service interval	Machine Age	hrs	Client Info		11950		
to monitor. (Customer Sample Comment: Hydraulic	Oil Age	hrs	Client Info		0		
filter and fluid change )	Oil Changed		Client Info		Changed		
▲ Wear	Sample Status				ABNORMAL		
The iron level is abnormal.		0	and the state	11		later and a	
Contamination	WEAR METAL	.5	method	limit/base	current	history 1	history 2
There is a high amount of particulates present in	Iron	ppm	ASTM D5185m		<u> </u>		
the oil.	Chromium	ppm	ASTM D5185m	>10	8		
Fluid Condition	Nickel	ppm	ASTM D5185m	>10	<1		
Viscosity of sample indicates oil is within ISO 46	Titanium	ppm	ASTM D5185m		1		
range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.	Silver	ppm	ASTM D5185m		<1		
iever is acceptable for this liulu.	Aluminum	ppm	ASTM D5185m	>10	1		
	Lead	ppm	ASTM D5185m	>10	2		
	Copper	ppm	ASTM D5185m	>75	2		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	Cadmium	ppm	ASTM D5185m		<1		
	ADDITIVES		method	limit/base	current	history 1	history 2
	Boron	ppm	ASTM D5185m	0	2		
	Barium	ppm	ASTM D5185m	0	0		
	Molybdenum	ppm	ASTM D5185m	0	4		
	Manganese	ppm	ASTM D5185m	0	1		
	Magnesium	ppm	ASTM D5185m	0	31		
	Calcium	ppm	ASTM D5185m	50	313		
	Phosphorus	ppm	ASTM D5185m	330	457		
	Zinc	ppm	ASTM D5185m	430	554		
	Sulfur	ppm	ASTM D5185m	760	1800		
	CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
	Silicon	ppm	ASTM D5185m	>20	4		
	Sodium	ppm	ASTM D5185m		2		
	Potassium	ppm	ASTM D5185m	>20	3		
	FLUID CLEAN	LINESS	method	limit/base	current	history 1	history 2
	Particles >4µm		ASTM D7647	>5000	🔺 78575		
	Particles >6µm		ASTM D7647	>1300	<u> </u>		
	Particles >14µm		ASTM D7647	>160	<u> </u>		
	Particles >21µm		ASTM D7647	>40	<u> </u>		
	Particles >38µm		ASTM D7647		<b>A</b> 33		
	Particles >71µm		ASTM D7647		<u>^</u> 2		
	Oil Cleanliness			>19/17/14			
	FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
	Acid Number (AN)	ma KOH/a	ASTM D8045	0.50	0.36		

Acid Number (AN) mg KOH/g ASTM D8045 0.50 0.36



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(B/HO)

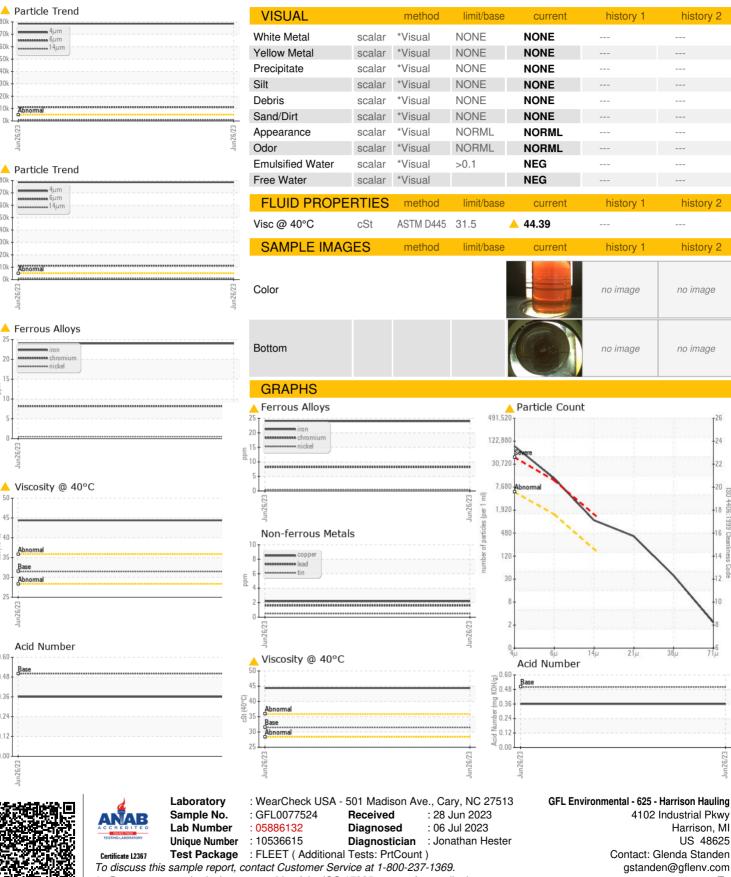
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E 0.24

Pio 0.12

0.00

# **OIL ANALYSIS REPORT**



\* - 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)

Submitted By: also GFL632 and GFL638 - Glenda Standen

history 1

history

history 1

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history 2

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