WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**



Machine Id 831027 Hydraulic System

Sample Number Client Info GFL0097975	PETRO CANADA HYDREX MV	32 (GAL)						
Sample Number Client Info GFL0097975	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info	Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid.	Sample Number		Client Info		GFL0097975		
All All		Sample Date		Client Info		07 May 2024		
Oil Age hrs Client Info 4147		Machine Age	hrs	Client Info		4147		
Oil Changed Cilent Info Not Change N		Oil Age	hrs	Client Info		4147		
Filter Changed Sample Status		Filter Age	hrs	Client Info		4147		
		Oil Changed		Client Info		Not Changd		
Iron		Filter Changed		Client Info		Not Changd		
Chromium ppm ASTM D6185m >5 0 Nickel ppm ASTM D6185m >2 <1 Silver ppm ASTM D6185m >2 <1 Silver ppm ASTM D6185m >2 0 Silver ppm ASTM D6185m >8 <1 Aluminum ppm ASTM D6185m >8 <1 Aluminum ppm ASTM D6185m >5 0 Aluminum ppm ASTM D6185m >5 0 Aluminum ppm ASTM D6185m >5 0 Tin ppm ASTM D6185m >2 0 Tin ppm ASTM D6185m >2 0 Vanadium ppm ASTM D6185m >2 0 Vanadium ppm ASTM D6185m >2 0 Vanadium ppm ASTM D6185m >2 0 Valore Valore Visual NONE NONE Valore Valore Valore Valore NONE Valore Valore Valore Valore NONE Contact Valore Valore Valore None None Contact Valore Valore Valore None None None Contact Valore Valore None		Sample Status				NORMAL		
Chromium ppm ASTM DS185 m >5 0 Nickel ppm ASTM DS185 m >2 <1 Titanium ppm ASTM DS185 m >2 <1 Silver ppm ASTM DS185 m >2 0 Aluminum ppm ASTM DS185 m >6 0 Aluminum ppm ASTM DS185 m >2 0 Tin ppm ASTM DS185 m >2 0 Tin ppm ASTM DS185 m >2 0 Aluminum ppm ASTM DS185 m >3 0 Aluminum ppm ASTM DS185 m >4 0 Aluminum ppm ASTM DS185 m >	WEAR	Iron	ppm	ASTM D5185(m)	>40	1		
Nickel ppm ASTM DSISSIM >2 <1 Titanium ppm ASTM DSISSIM >2 0 Silver ppm ASTM DSISSIM >2 0 Aluminum ppm ASTM DSISSIM >8 <1 Aluminum ppm ASTM DSISSIM >8 <1 Aluminum ppm ASTM DSISSIM >5 0 Copper ppm ASTM DSISSIM >2 0 Vanadium ppm ASTM DSISSIM >2 0 Valide Metal scalar Visual* NONE VILITE Contamination of any contamination in the omponent (unconfirmed). Silicon ppm ASTM DSISSIM >20 1 Component (unconfirmed). Sit scalar Visual* NONE VILITE Debris scalar Visual* NONE NONE Appearance scalar Visual* NONE NONE Appearance scalar Visual* NONE NONE Codor scalar Visual* NONE NONE Appearance scalar Visual* NONE NONE Codor scalar Visual* NONE NONE Codor scalar Visual* NONE NONE Appearance scalar Visual* NONE NONE Appearance scalar Visual* NONE NONE Appearance scalar Visual* NONE NONE Appearance scalar Visual* NONE NONE Appearance scalar Visual* NONE NONE Appearance scalar Visual* NONE NONE Appearance scalar Visual* NONE Appearance scalar Visual* NONE Appearance scalar Visual* NONE Appearance scalar Visual* NONE Appearance scalar Visual* NONE Appearance scalar Visual* NONE Appearance scala	All component wear rates are normal.	Chromium		. ,		0		
Titanium ppm ASTM D5185(m) >2 0 Silver ppm ASTM D5185(m) >8 <1 Aluminum ppm ASTM D5185(m) >8 <1 Copper ppm ASTM D5185(m) >5 0 Copper ppm ASTM D5185(m) >2 0 Tin ppm ASTM D5185(m) >2 0 Vanadium ppm ASTM D5185(m) >2 0 Vanadium ppm ASTM D5185(m) >2 0 Vanadium ppm ASTM D5185(m) 0 Vallow Metal scalar Visual* NONE VLITE Vallow Metal scalar Visual* NONE NONE NONE NONE Vallow Metal scalar Visual* NONE N				, ,				
Silver				. ,				
Aluminum ppm ASTM D5185(m) >8 <1 Lead ppm ASTM D5185(m) >5 0 Copper ppm ASTM D5185(m) >2 0 Tin ppm ASTM D5185(m) >2 0 Vanadium ppm ASTM D5185(m) >2 1 Vanadium ppm ASTM D5185(m) >2 2 Vanadium ppm ASTM D5185(m) >2 2 Vanadium ppm ASTM D5185(m) >2 2 Vanadium ppm ASTM D5185(m) Valual* NONE NONE Vanadium ppm ASTM D5185(m) 0 <1 Vanadium ppm ASTM D518		Silver		, ,		0		
Copper ppm ASTM DS185[m] >20 1		Aluminum		ASTM D5185(m)	>8	<1		
Tin		Lead	ppm	ASTM D5185(m)	>5	0		
Vanadium ppm ASTM D5185(m) 0 White Metal scalar Visual* NONE VLITE Value Visual* NONE VLITE Value Visual* NONE NONE Value Visual* NONE NONE Value Visual* NONE VILTE Value Visual* NONE VILTE Value Visual* NONE VILTE Value Visual* NONE NONE NONE Value Visual* NONE NONE NONE Value Visual* NONE NONE Value Visual* NORM		Copper	ppm	ASTM D5185(m)	>20	1		
White Metal Scalar Visual* NONE VITE		Tin	ppm	ASTM D5185(m)	>2	0		
Yellow Metal scalar Visual* NONE N		Vanadium	ppm	ASTM D5185(m)		0		
Silicon ppm ASTM DS185(m) >20 1		White Metal	scalar	Visual*	NONE	VLITE		
Potassium ppm ASTM D5185(m) >20 2		Yellow Metal	scalar	Visual*	NONE	NONE		
Potassium ppm ASTM D5185(m) >20 2	CONTAMINATION	O'''		AOTM DELOC				
Water WC Method >0.1 NEG	CONTAMINATION							
Silt Scalar Visual* NONE VLITE Debris Scalar Visual* NONE NONE NONE Sand/Dirt Scalar Visual* NONE NONE Appearance Scalar Visual* NORML NORML NORML NORML NORML NORML Appearance Scalar Visual* NORML NOR	There is no indication of any contamination in the component(unconfirmed).		ppm	, ,				
Debris Scalar Visual* NONE NONE NONE Sand/Dirt Scalar Visual* NONE NONE NONE Sand/Dirt Scalar Visual* NONE NORML Scalar Visual* NORML NORML Scalar Visual* Scalar Vis			cooler					
Sand/Dirt scalar Visual* NONE NONE NORML								
Appearance Scalar Visual* NORML NORM								
Odor		-						
Emulsified Water scalar Visual* >0.1 NEG								
Boron ppm ASTM D5185(m) 0 <1 Barium ppm ASTM D5185(m) 0 <1 Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) 1 0 Magnesium ppm ASTM D5185(m) 0 2 Calcium ppm ASTM D5185(m) 50 45 Phosphorus ppm ASTM D5185(m) 330 309 Zinc ppm ASTM D5185(m) 430 394 Sulfur ppm ASTM D5185(m) 760 729								
Boron ppm ASTM D5185(m) 0 <1 Barium ppm ASTM D5185(m) 0 <1 Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) 1 0 Magnesium ppm ASTM D5185(m) 0 2 Calcium ppm ASTM D5185(m) 50 45 Phosphorus ppm ASTM D5185(m) 330 309 Zinc ppm ASTM D5185(m) 430 394 Sulfur ppm ASTM D5185(m) 760 729	ELLUD CONDITION	0		AOTM DE40E()				
Barium ppm ASTM D5185(m) 0 <1 Molybdenum ppm ASTM D5185(m) 0 0 Manganese ppm ASTM D5185(m) 1 0 Magnesium ppm ASTM D5185(m) 0 2 Calcium ppm ASTM D5185(m) 50 45 Phosphorus ppm ASTM D5185(m) 330 309 Zinc ppm ASTM D5185(m) 430 394 Sulfur ppm ASTM D5185(m) 760 729	The condition of the oil is acceptable for the time in service.			. ,	0			
Molybdenum ppm ASTM D5185(m) 0 0 Manganese ppm ASTM D5185(m) 1 0 Magnesium ppm ASTM D5185(m) 0 2 Calcium ppm ASTM D5185(m) 50 45 Phosphorus ppm ASTM D5185(m) 330 309 Zinc ppm ASTM D5185(m) 430 394 Sulfur ppm ASTM D5185(m) 760 729								
Manganese ppm ASTM D5185(m) 1 0 Magnesium ppm ASTM D5185(m) 0 2 Calcium ppm ASTM D5185(m) 50 45 Phosphorus ppm ASTM D5185(m) 330 309 Zinc ppm ASTM D5185(m) 430 394 Sulfur ppm ASTM D5185(m) 760 729				. ,				
Magnesium ppm ASTM D5185(m) 0 2 Calcium ppm ASTM D5185(m) 50 45 Phosphorus ppm ASTM D5185(m) 330 309 Zinc ppm ASTM D5185(m) 430 394 Sulfur ppm ASTM D5185(m) 760 729		-						
Calcium ppm ASTM D5185(m) 50 45 Phosphorus ppm ASTM D5185(m) 330 309 Zinc ppm ASTM D5185(m) 430 394 Sulfur ppm ASTM D5185(m) 760 729		ŭ .						
Phosphorus ppm ASTM D5185(m) 330 309 Zinc ppm ASTM D5185(m) 430 394 Sulfur ppm ASTM D5185(m) 760 729		-						
Zinc ppm ASTM D5185(m) 430 394 Sulfur ppm ASTM D5185(m) 760 729				. ,				
Sulfur ppm ASTM D5185(m) 760 729		•		, ,				
				. ,				
		Visc @ 40°C	cSt	ASTM D3103(m) ASTM D7279(m)	31.9	31.0		





ISO 17025:2017 Accredited Laboratory Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

 Sample No.
 : GFL0097975
 Received
 : 02 Jul 2024

 Lab Number
 : 02644915
 Tested
 : 04 Jul 2024

 Unique Number
 : 5802454
 Diagnosed
 : 04 Jul 2024 - h

To discuss this sample report, contact Customer Service at 1-800-268-2131.

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.

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