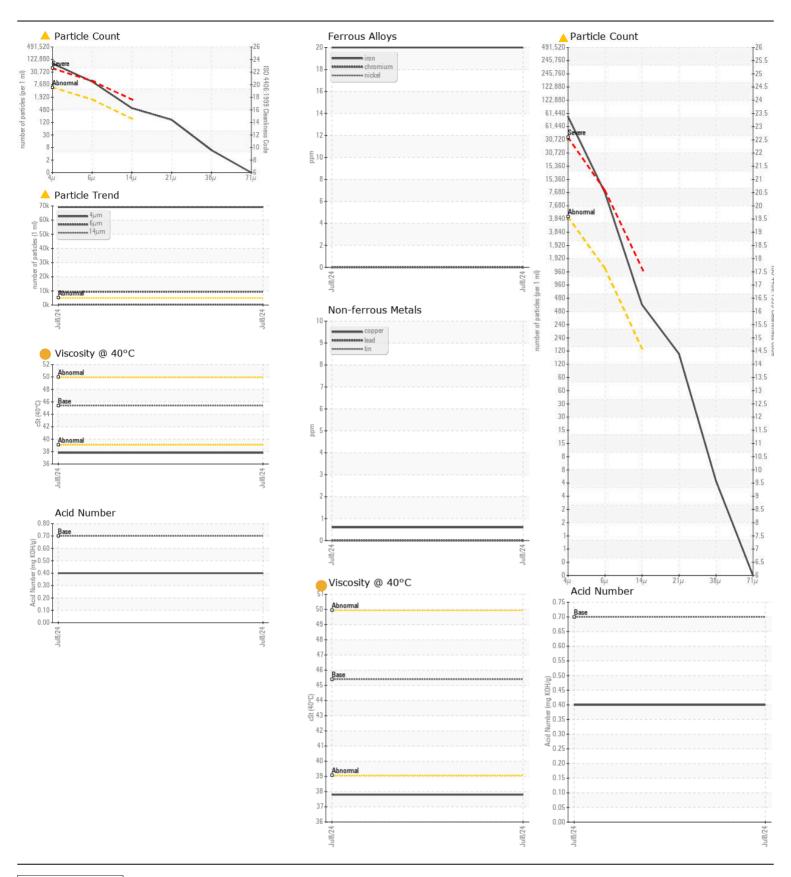


Machine Id 834053 Component Hydraulic System Fluid

PETRO CANADA HYDREX MV 46 (--- GAL)

Sample Number Client Info 08 Jul 2024	TETHO GANADA III DILA MIV							
We recommend you service the filters on this component. Resample at the next service interval to monitor. Sample Date Machine Age hrs Cilent Info 1788	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
the next service interval to monitor. Sample Date Machine Age hrs Client Info 1788	We recommend you service the filters on this component. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0122844		
Machine Age Ins Client Info 1788		Sample Date		Client Info		08 Jul 2024		
Filter Age		Machine Age	hrs	Client Info		1864		
Oil Changed Client Info Not Changed Client Info Client Info Not Changed Client Info		Oil Age	hrs			1788		
Filter Changed Client Info Not Changed		•	hrs			0		
NEAR		_						
Iron				Client Info				
All component wear rates are normal. Chromium ppm ASTM D556m 4 0		Sample Status				ABNORMAL		
All component wear rates are normal. Chromium ppm ASTM D556m 4 0	WEAD	Iron	nnm	ACTM DE105m	× 50	20		
Nicke	WEAN							
Titanium ppm ASTM 05185m 0	All component wear rates are normal.							
Silver ppm ASTM D5185m >5 2 Aluminum ppm ASTM D5185m >5 2 Lead ppm ASTM D5185m >5 2 Copper ppm ASTM D5185m >15 <1 Tin ppm ASTM D5185m >15 <1 Tin ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Value Metal scalar "Visual NONE					74			
Aluminum ppm ASTM D5185m >5 2								
Lead ppm ASTM D6185m >4 0					>5			
Copper								
Tin								
Vanadium								
White Metal Yellow Metal Scalar Visual NONE NON								
Yellow Metal Scalar *Visual NONE NONE					NONE			
Silicon ppm ASTM D5185m >15 9						NONE		
Potassium ppm ASTM D5185m ≥20 3								
Water WC Method So.1 NEG So.000 A \$135 So.0000 A \$135 So.000 A \$135 So.0000 A \$135 So.000	CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	9		
Particles >4μm ASTM D7647 >5000	There is a high amount of particulates present in the oil.		ppm	ASTM D5185m	>20			
Particles >6µm Particles >6µm Particles >6µm Particles >14µm ASTM D7647 >100 △ 503 ··· ··· Particles >38µm ASTM D7647 >10 △ 503 ··· ··· Particles >38µm ASTM D7647 >10 △ 139 ··· ··· Particles >38µm ASTM D7647 >10 5 ··· ··· Particles >38µm ASTM D7647 >10 5 ··· ··· Particles >71µm ASTM D7647 >3 0 ··· ··· Particles >6µm ASTM D7647 >10 5 ··· ··· Particles >8µm ASTM D7647 >10 5 ··· ··· Particles >7µm ASTM D7647 >10 5 ··· ··· Particles >8µm ASTM D7647 >10 NONE ··· ··· ··· Particles >8µm ASTM D7647 >10 NONE ··· ··· ··· Particles >8µm ASTM D7647 >10 NONE ··· ··· ··· Particles >8µm ASTM D7647 >10 NONE ··· ··· ··· ··· Particles >8µm ASTM D76485m O 0 ··· ··· ··· ··· Particles >8µm ASTM D7685m O 0 ···								
Particles >14µm								
Particles > 21 µm		· .						
Particles > 38µm Particles > 38µm Particles > 5 Particles > 71µm ASTM D7647 >3 0 0 Particles > 71µm ASTM D7647 >3 0 0 Particles > 71µm ASTM D7647 >3 0 0 Particles > 71µm ASTM D7687 NONE NONE NONE Particles > 71µm ASTM D7687 NONE NONE NONE NONE NONE Particles > 71µm ASTM D7687 NONE NORML NOR		•						
Particles >71 µm								
Oil Cleanliness SO 4406 (c) >19/17/14 23/20/16								
Silt scalar *Visual NONE NONE NONE Scalar *Visual None *Visual None *Visual None *Visual None *Visual None *Visua						-		
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NORML NORML Sand San								
Sand/Dirt Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NORML NORM								
Appearance scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual NORML NO								
Codor Scalar *Visual NORML N								
Emulsified Water scalar *Visual >0.1 NEG								
Sodium ppm ASTM D5185m 0 0 0 0 0 0 0 0 0								
Boron ppm ASTM D5185m 0 0 0								
Boron ppm ASTM D5185m 0 0 0	FLUID CONDITION	Sodium	ppm	ASTM D5185m		7		
this fluid. Molybdenum ppm ASTM D5185m 0 <1 Manganese ppm ASTM D5185m 1 0 Magnesium ppm ASTM D5185m 0 19 Calcium ppm ASTM D5185m 50 92 Phosphorus ppm ASTM D5185m 330 390 Zinc ppm ASTM D5185m 430 470 Sulfur ppm ASTM D5185m 760 1244 Acid Number (AN) mg KOH/g ASTM D8045 0.70 0.40		Boron		ASTM D5185m	0	0		
Molybdenum ppm ASTM D5185m U <1	·	Barium	ppm	ASTM D5185m	0	0		
Magnesium ppm ASTM D5185m 0 19 Calcium ppm ASTM D5185m 50 92 Phosphorus ppm ASTM D5185m 330 390 Zinc ppm ASTM D5185m 430 470 Sulfur ppm ASTM D5185m 760 1244 Acid Number (AN) mg KOH/g ASTM D8045 0.70 0.40	this fluid.	Molybdenum	ppm	ASTM D5185m	0	<1		
Calcium ppm ASTM D5185m 50 92 Phosphorus ppm ASTM D5185m 330 390 Zinc ppm ASTM D5185m 430 470 Sulfur ppm ASTM D5185m 760 1244 Acid Number (AN) mg KOH/g ASTM D8045 0.70 0.40		Manganese	ppm	ASTM D5185m	1	0		
Phosphorus ppm ASTM D5185m 330 390 Zinc ppm ASTM D5185m 430 470 Sulfur ppm ASTM D5185m 760 1244 Acid Number (AN) mg KOH/g ASTM D8045 0.70 0.40			ppm	ASTM D5185m	0	19		
Zinc ppm ASTM D5185m 430 470 Sulfur ppm ASTM D5185m 760 1244 Acid Number (AN) mg KOH/g ASTM D8045 0.70 0.40			ppm					
Sulfur ppm ASTM D5185m 760 1244 Acid Number (AN) mg KOH/g ASTM D8045 0.70 0.40			ppm		330			
Acid Number (AN) mg KOH/g ASTM D8045 0.70 0.40			ppm					
Visc @ 40°C cSt ASTM D445 45.4 37.8		. ,						
		Visc @ 40°C	cSt	ASTM D445	45.4	37.8		





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0122844 Lab Number : 06238356

Received Unique Number : 11127190

Tested Diagnosed Test Package : FLEET (Additional Tests: PrtCount)

: 16 Jul 2024 : 17 Jul 2024 : 18 Jul 2024 - Don Baldridge

7801 East Truman Road

Contact: Loyce Stewart loyce.stewart@gflenv.com T:

Kansas City, MO

US 64126

F:

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 - 836 - Kansas City Hauling