

Machine Id **PORT FIFI GEARBOX** Component **Port Gearbox** Fluid **PETRO CANADA ENDURATEX EP 68 (--- GAL)**

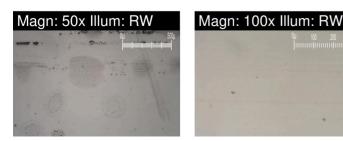
RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

WEAR

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

Magn: 200	0x Illum: BC
	s. 0, 10, 10, 10, 10, 10, 10, 10, 10, 10,
9 0 0 9 0	



Test		UOM	Method	Limit/Abn	Current	History1	History2
Samp	le Number		Client Info		WC0873818	WC0785231	
Samp	ole Date		Client Info		05 Apr 2024	30 Jan 2024	
Mach	nine Age	hrs	Client Info		39000	0	
Oil A	ge	hrs	Client Info		500	0	
Filter	Age	hrs	Client Info		500	0	
Oil C	hanged		Client Info		Not Changd	N/A	
Filter	Changed		Client Info		Changed	N/A	
Samp	ole Status				NORMAL	NORMAL	
50				•			
PQ			ASTM D8184*	150	0	0	
Iron		ppm	ASTM D5185(m)	>150	0	0	
	mium	ppm	ASTM D5185(m)	>10	0	0	
Nicke		ppm	ASTM D5185(m)	>10	0	<1	
Titan	-	ppm	ASTM D5185(m)		0	0	
Silve		ppm	ASTM D5185(m)	_	0	0	
Alum		ppm	ASTM D5185(m)	>5	0	<1	
Lead		ppm	ASTM D5185(m)	>65	0	<1	
Copp	er	ppm	ASTM D5185(m)	>80	<1	<1	
Tin		ppm	ASTM D5185(m)	>8	0	0	
Vana		ppm	ASTM D5185(m)		0	0	
	e Metal	scalar	Visual*	NONE	NONE	NONE	
	w Metal	scalar	Visual*	NONE	NONE	NONE	
U	e Particles		DR-Ferr*		1.5	3.6	
	I Particles		DR-Ferr*		1.4	0.7	
	Particles		DR-Ferr*	>	2.9	4.3	
Large Pa	rticles Percentage	%	DR-Ferr*		3.4	67.4	
	rity Index		DR-Ferr*		0	10	
	us Rubbing	Scale 0-10	ASTM D7684*		1	1	
Ferro	us Sliding	Scale 0-10	ASTM D7684*				
	us Cutting	Scale 0-10	ASTM D7684*				
Ferro	us Rolling	Scale 0-10	ASTM D7684*		1	1	
Ferrou	us Break-in	Scale 0-10	ASTM D7684*				
Ferrou	us Spheres	Scale 0-10	ASTM D7684*				
Ferrous	Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous	s Red Oxides	Scale 0-10	ASTM D7684*				
Ferrou	is Corrosive	Scale 0-10	ASTM D7684*				
	ous Other	Scale 0-10	ASTM D7684*				
Nonfer	rous Rubbing	Scale 0-10	ASTM D7684*				
Nonfer	rrous Sliding	Scale 0-10	ASTM D7684*				
Nonfer	rous Cutting	Scale 0-10	ASTM D7684*				
Nonfer	rrous Rolling	Scale 0-10	ASTM D7684*				
Nonfe	rrous Other	Scale 0-10	ASTM D7684*				

Report Id: PLACPRIDE [WCAMIS] 02628596 (Generated: 04/19/2024 13:00:31) Rev: 1

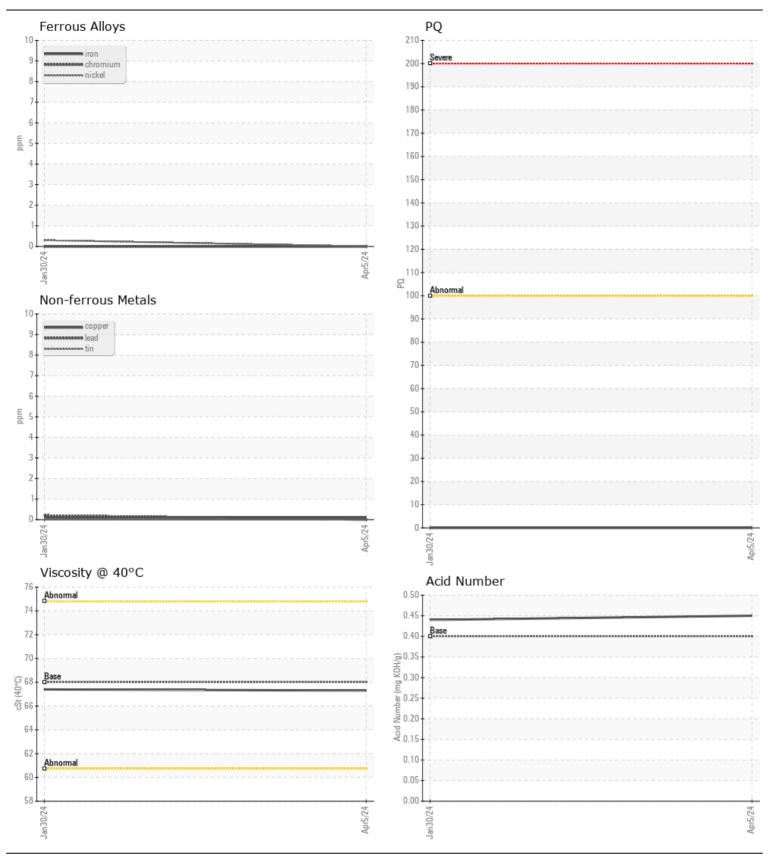
CONTAMINANTS

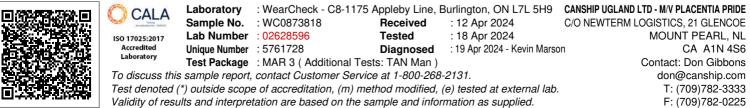
There is no indication of any contamination in the oil.

OIL CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Silicon	ppm	ASTM D5185(m)	>20	0	<1	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
Water		WC Method	>0.2	NEG	NEG	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*			1	
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1		
Sodium	ppm	ASTM D5185(m)		<1	0	
Boron	ppm	ASTM D5185(m)	69	71	71	
Barium	ppm	ASTM D5185(m)	1	0	0	
Molybdenum	ppm	ASTM D5185(m)	1	0	0	
Manganese	ppm	ASTM D5185(m)	1	0	0	
Magnesium	ppm	ASTM D5185(m)	1	0	<1	
Calcium	ppm	ASTM D5185(m)	1	<1	6	
Phosphorus	ppm	ASTM D5185(m)	246	276	281	
Zinc	ppm	ASTM D5185(m)	1	1	2	
Sulfur	ppm	ASTM D5185(m)	3670	4706	4881	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.4	0.45	0.44	
Visc @ 40°C	cSt	ASTM D7279(m)	68.0	67.3	67.4	
Lubricant Degradation	Scale 0-10	ASTM D7684*				





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