

STBD FIFI GEARBOX

Starboard Gearbox

PETRO CANADA ENDURATEX EP 68 (40 LTR)

RECOMMENDATION

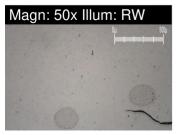
Resample at the next service interval to monitor.

WEAR

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

Magn: 200x III	um: BC		
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Magn: 100x	Illum: RW
	0µ 100 200 300µ
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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0873819	WC0873815	
Sample Date		Client Info		05 Apr 2024	30 Jan 2024	
Machine Age	hrs	Client Info		39000	0	
Oil Age	hrs	Client Info		500	0	
Filter Age	hrs	Client Info		500	0	
Oil Changed		Client Info		Not Changd	N/A	
Filter Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
PQ		ASTM D8184*		0	0	
Iron	ppm	ASTM D5185(m)	>150	<1	<1	
Chromium	ppm	ASTM D5185(m)	>10	0	0	
Nickel	ppm	ASTM D5185(m)	>10	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>5	0	<1	
Lead	ppm	ASTM D5185(m)	>65	5	6	
Copper	ppm	ASTM D5185(m)	>80	1	1	
Tin	ppm	ASTM D5185(m)	>8	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Large Particles		DR-Ferr*		2.1	1.0	
Small Particles		DR-Ferr*		2.0	0.9	
Total Particles		DR-Ferr*	>	4.1	1.9	
Large Particles Percentage	%	DR-Ferr*		2.4	5.3	
Severity Index		DR-Ferr*		0	0	
Ferrous Rubbing	Scale 0-10	ASTM D7684*		1	1	
Ferrous Sliding	Scale 0-10	ASTM D7684*			1	
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		1		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*			1	
Ferrous Black Oxides	Scale 0-10	ASTM D7684*		1	1	
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				

Report Id: PLACPRIDE [WCAMIS] 02628597 (Generated: 04/19/2024 13:00:39) Rev: 1

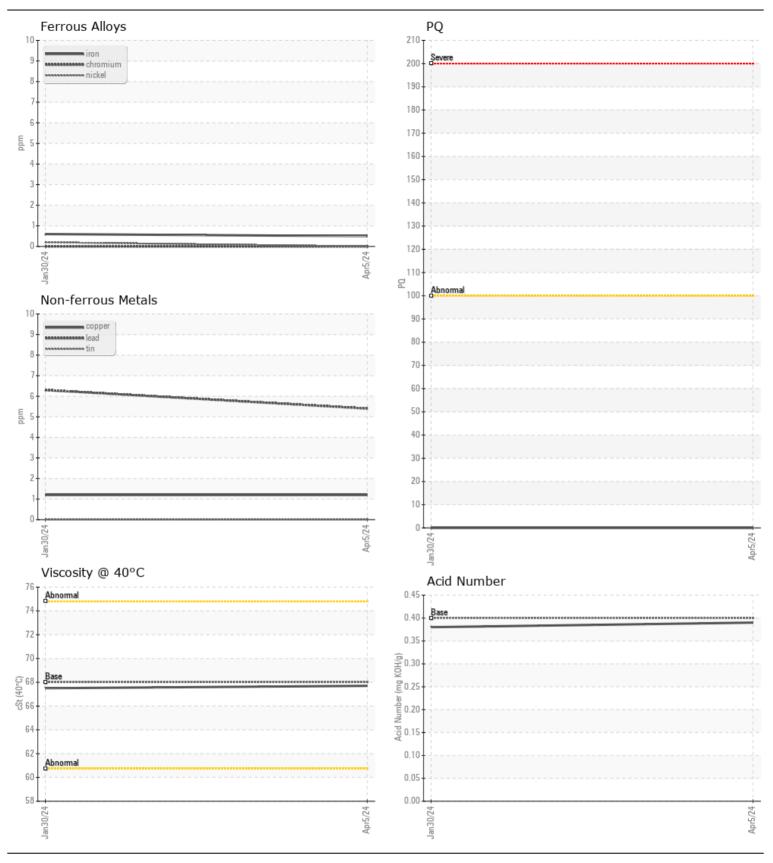
CONTAMINANTS

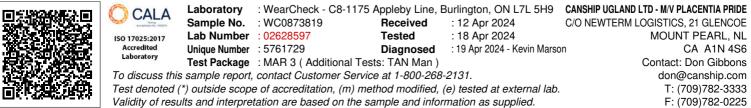
There is no indication of any contamination in the oil.

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	4	5	
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	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)		2	2	
Boron	ppm	ASTM D5185(m)	69	54	53	
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	<1	0	
Calcium	ppm	ASTM D5185(m)	1	<1	2	
Phosphorus	ppm	ASTM D5185(m)	246	243	244	
Zinc	ppm	ASTM D5185(m)	1	3	2	
Sulfur	ppm	ASTM D5185(m)	3670	4202	4362	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.4	0.39	0.38	
Visc @ 40°C	cSt	ASTM D7279(m)	68.0	67.7	67.5	
Lubricant Degradation	Scale 0-10	ASTM D7684*				





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