

OIL ANALYSIS REPORT

Pickle Line [Pickle Line] 590005-# 4 BRIDLE ROLL # 2 Component

Gearbox

PETRO CANADA ENDURATEX EP 220 (--- GAL)

DIAGNOSIS

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

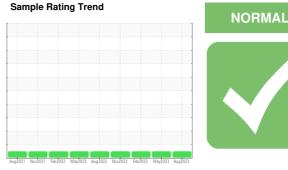
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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





SAMPLE INFORMATION method PCA0095474 PCA0089509 Client Info PCA0101458 Sample Number 22 Aug 2023 23 May 2023 23 Feb 2023 Sample Date Client Info 0 0 Machine Age hrs **Client Info** 0 Oil Age hrs Client Info 0 0 0 Oil Changed **Client Info** N/A N/A Not Changd NORMAL NORMAL Sample Status NORMAL WEAR METALS PQ **ASTM D8184** 15 24 14 ASTM D5185m >200 5 29 9 Iron ppm Chromium ppm ASTM D5185m >15 0 <1 0 Nickel ASTM D5185m >15 0 <1 ppm <1 0 0 Titanium ppm ASTM D5185m 0 Silver ASTM D5185m 0 0 0 ppm Aluminum ASTM D5185m >25 <1 <1 <1 ppm 0 0 0 Lead ASTM D5185m >100 ppm Copper ppm ASTM D5185m >200 <1 <1 <1 ASTM D5185m >25 0 0 0 Tin ppm Vanadium ppm ASTM D5185m <1 0 0 Cadmium ASTM D5185m <1 0 ppm <1 **ADDITIVES** Boron ppm ASTM D5185m 60 70 4 59 0 Barium ASTM D5185m 0 0 0 ppm 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ASTM D5185m 0 <1 <1 ppm Magnesium ppm ASTM D5185m 0 <1 <1 <1 2 3 Calcium ppm ASTM D5185m 0 2 Phosphorus ASTM D5185m 270 284 126 243 ppm 3 Zinc ASTM D5185m 0 0 4 ppm Sulfur ASTM D5185m 11200 7961 7814 7252 ppm CONTAMINANTS Silicon ASTM D5185m >50 5 6 4 ppm Sodium ASTM D5185m ppm <1 <1 <1 2 Potassium ASTM D5185m >20 <1 <1 ppm

FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.45	0.26	0.38
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
7 Free Water	scalar	*Visual		NEG	ocation BRAD E	LLISIE SDITER



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