

OIL ANALYSIS REPORT

Pickle Line [Pickle Line] 585035-EXIT LOOPER WINCH-DELIVERY Component Gearbox

Fluid 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

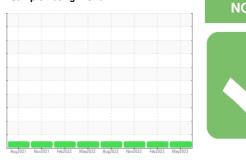
All component wear rates are normal.

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.



/		Aug2021 M	lov2021 Feb2022 May20	22 Aug2022 Nov2022 Feb2023	May2023	
SAMPLE INFORM	NATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0095469	PCA0089504	PCA0081739
Sample Date		Client Info		23 May 2023	23 Feb 2023	22 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history 1	history 2
PQ		ASTM D8184		15	16	
Iron	ppm	ASTM D5185m	>200	30	30	3
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	0
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	60	4	7	69
Destaure		AOTH DEADE	0	•	0	0

Boron	ppm	ASTM D5185m	60	4	7	69
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	0	1	<1	<1
Calcium	ppm	ASTM D5185m	0	2	4	53
Phosphorus	ppm	ASTM D5185m	270	128	116	265
Zinc	ppm	ASTM D5185m	0	2	9	16
Sulfur	ppm	ASTM D5185m	11200	8036	7365	6937
CONTAMINAN	TS	method	limit/hase	current	history 1	history 2

Silicon	ppm	ASTM D5185m	>50	6	7	5
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	2	<1	0

FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.27	0.25	0.47
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
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
4 Free Water	scalar	*Visual		NEG	ocation BRAD E	LLISIESDITER





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