

## **OIL ANALYSIS REPORT**

SAMPLE INFORMATION

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATION

WEAR METALS

Oil Age

Water

PQ

Iron

Nickel

Chromium

## Area Temper Mill [Temper Mill] 230135-DELIVERY TENSION REEL Componen

Gearbox Fluic

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

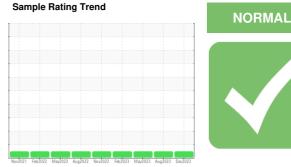
All component wear rates are normal.

### 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.



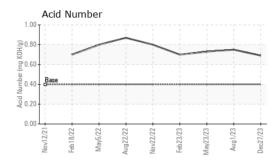
Nov2021 Feb2022 May2022 Aug2022 Nov2022 Feb2023 May2023 Aug2023 Dec2023							
MATION	method	limit/base	current	history1	history2		
	Client Info		PCA0107727	PCA0101479	PCA0095450		
	Client Info		27 Dec 2023	01 Aug 2023	23 May 2023		
hrs	Client Info		0	0	0		
hrs	Client Info		0	0	0		
	Client Info		N/A	N/A	N/A		
			NORMAL	NORMAL	NORMAL		
ION	method	limit/base	current	history1	history2		
	WC Method	>0.2	NEG	NEG	NEG		
S	method	limit/base	current	history1	history2		
	ASTM D8184		26	23	14		
ppm	ASTM D5185m	>200	61	71	55		
ppm	ASTM D5185m	>15	3	3	3		
ppm	ASTM D5185m	>15	0	0	<1		
ppm	ASTM D5185m		0	0	0		
ppm	ASTM D5185m		0	0	<1		
nnm	ASTM D5185m	> 25	-1	-1	1		

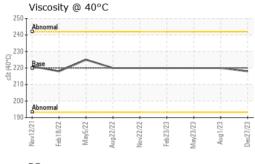
	1010			-		
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	<1	1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	6	8	6
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	60	11	7	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	0	0	1	0
Calcium	ppm	ASTM D5185m	0	5	<1	2
Phosphorus	ppm	ASTM D5185m	270	180	227	204
Zinc	ppm	ASTM D5185m	0	11	12	7
Sulfur	ppm	ASTM D5185m	11200	10257	13304	14182
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11	11	8
Sodium	ppm	ASTM D5185m		0	2	<1
Potassium	ppm	ASTM D5185m	>20	<1	3	3

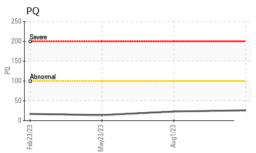
FLUID DEGRA	DATION	method				history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.69	0.75	0.73



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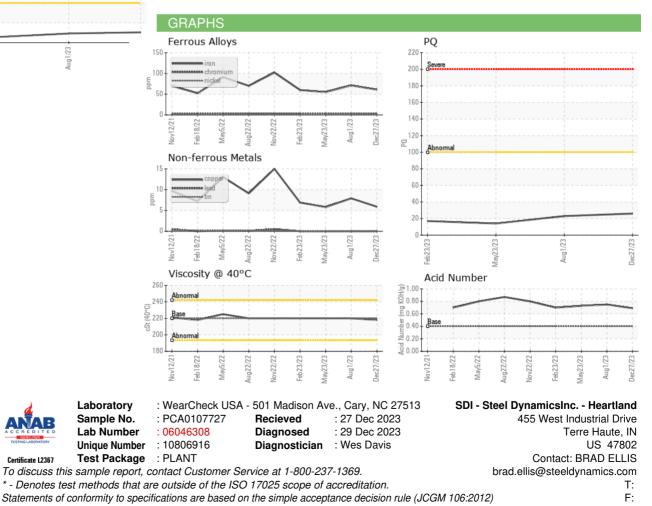






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	218	220	220
SAMPLE IMAG	ies	method	limit/base	current	history1	history2
Color					DELIVERY TENO Petro Canada IS Basic Ind	

Bottom



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Contact/Location: BRAD ELLIS - SDITER