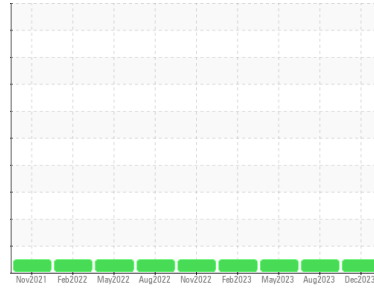


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Temper Mill**  
 Machine Id  
**[Temper Mill] 210080-DRIVE PAYOFF REEL**  
 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.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0107734</b>	PCA0101486	PCA0095457
Sample Date	Client Info	<b>27 Dec 2023</b>	01 Aug 2023	23 May 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	Not Changd
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	<b>68</b>	67	72
Iron	ppm ASTM D5185m >200	<b>81</b>	95	87
Chromium	ppm ASTM D5185m >15	<b>1</b>	1	1
Nickel	ppm ASTM D5185m >15	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	0	<1
Silver	ppm ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >25	<b>0</b>	<1	1
Lead	ppm ASTM D5185m >100	<b>0</b>	0	<1
Copper	ppm ASTM D5185m >200	<b>16</b>	18	16
Tin	ppm ASTM D5185m >25	<b>0</b>	0	0
Vanadium	ppm ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 60	<b>4</b>	2	2
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 0	<b>0</b>	<1	<1
Manganese	ppm ASTM D5185m 0	<b>1</b>	2	2
Magnesium	ppm ASTM D5185m 0	<b>0</b>	1	2
Calcium	ppm ASTM D5185m 0	<b>18</b>	15	17
Phosphorus	ppm ASTM D5185m 270	<b>186</b>	253	237
Zinc	ppm ASTM D5185m 0	<b>16</b>	17	16
Sulfur	ppm ASTM D5185m 11200	<b>12151</b>	16040	15587

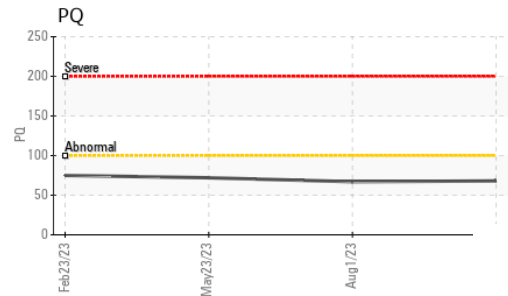
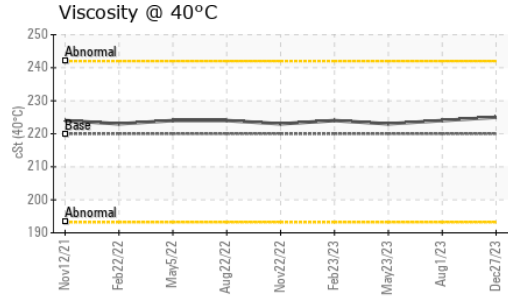
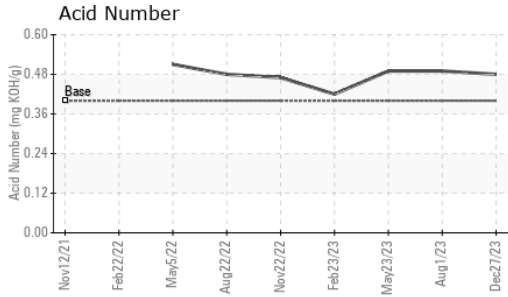
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	<b>7</b>	6	6
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	2	2
Potassium	ppm ASTM D5185m >20	<b>1</b>	4	4

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.40	<b>0.48</b>	0.49	0.49

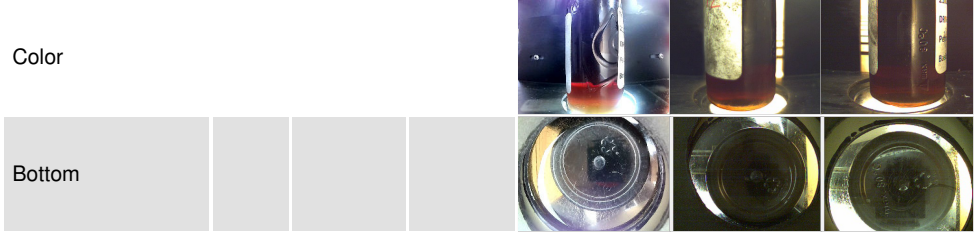
# OIL ANALYSIS REPORT



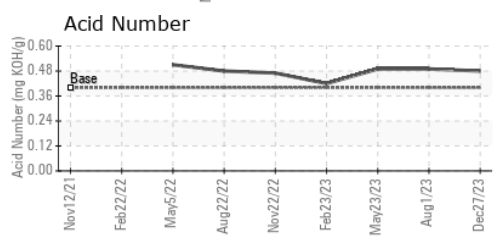
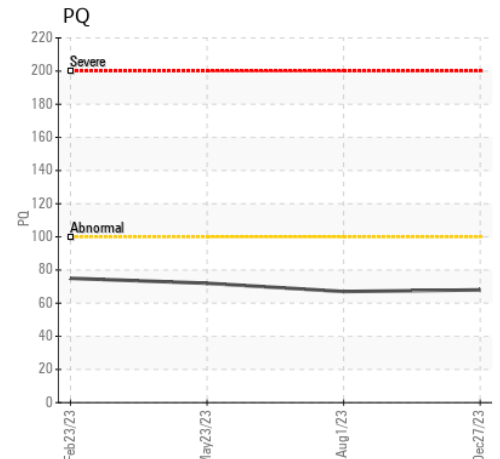
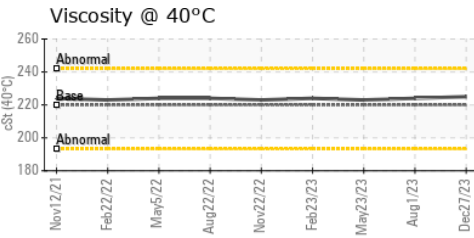
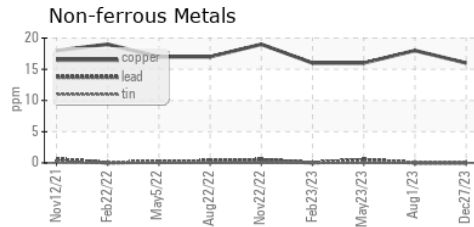
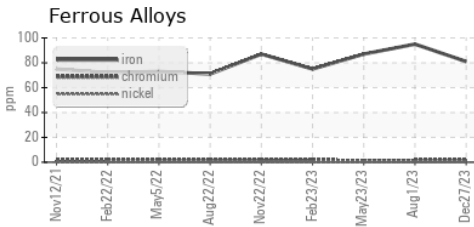
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 220	<b>225</b>	224	223

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0107734 **Received** : 27 Dec 2023  
**Lab Number** : **06046317** **Diagnosed** : 29 Dec 2023  
**Unique Number** : 10806925 **Diagnostician** : Wes Davis  
**Test Package** : PLANT

**SDI - Steel Dynamics Inc. - Heartland**  
 455 West Industrial Drive  
 Terre Haute, IN  
 US 47802  
 Contact: BRAD ELLIS  
 brad.ellis@steeldynamics.com  
 T:  
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)