

OIL ANALYSIS REPORT

Oil Changed

Sample Status

Sample Rating Trend

NORMAL

Not Changd

NORMAL

Not Changd

NORMAL

Galy Line [Galv Line] 690015-DELIVERY L

Gearbox

PETRO CANADA ENDURATEX EP 220 (--- 0

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

Fluid Condition

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

LOOPER WII	NCH	Aug2021 1	iov2021 Feb2022 May/202	2 Aug2022 Nov2022 Feb2023	Mm/2023	
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0095444	PCA0089469	PCA0081698
Sample Date		Client Info		23 May 2023	01 Feb 2023	22 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0

Client Info

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		13	13	
Iron	ppm	ASTM D5185m	>200	8	8	12
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	3
Tin	ppm	ASTM D5185m	>25	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

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ADDITIVES		method				history2
Boron	ppm	ASTM D5185m	60	22	22	17
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	0	3	2	<1
Calcium	ppm	ASTM D5185m	0	20	21	23
Phosphorus	ppm	ASTM D5185m	270	248	242	251
Zinc	ppm	ASTM D5185m	0	12	18	18
Sulfur	ppm	ASTM D5185m	11200	7938	7746	7587

CONTAMINANTS		method				history2
Silicon	ppm	ASTM D5185m	>50	12	13	13
Sodium	ppm	ASTM D5185m		1	<1	<1
Potassium	ppm	ASTM D5185m	>20	3	0	0

FLUID DEGRAI	DATION	method				history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.49	0.47	0.54
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
Emulcified Water	coalar	*\/icual	×0.2	NEG	NEG	NEG



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: PCA0095444 : 05894557 : 10550367 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 10 Jul 2023 Received Diagnosed : 13 Jul 2023

Diagnostician : Wes Davis

SDI - Steel DynamicsInc. - Heartland 455 West Industrial Drive

Terre Haute, IN US 47802

Contact: BRAD ELLIS brad.ellis@steeldynamics.com

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)

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