

OIL ANALYSIS REPORT

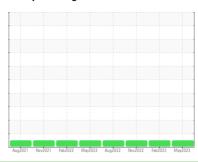
Sample Rating Trend

Pickle Line

[Pickle Line] 580045-CHOPPER KNIFE GB - DRIVE SIDE

Drive End 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

Fluid Condition

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

Aug2021 Nov2021 Feb2022 May2022 Aug2022 Nov2022 Feb2023 May2023						
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0095472	PCA0089507	PCA0081742
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		method	limit/base	current	history1	history2
PQ		ASTM D8184		12	19	
Iron	ppm	ASTM D5185m	>200	30	9	<1
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m	>25	<1	<1	0
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m	>200	<1	<1	0
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		<1	0	0
	ppm	ASTM D5185m		0	0	0
	ppm		12			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	60	6	59	66
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	0	2	<1	0
Calcium	ppm	ASTM D5185m	0	2	2	<1
Phosphorus	ppm	ASTM D5185m	270	125	244	247
Zinc	ppm	ASTM D5185m	0	5	2	3
Sulfur	ppm	ASTM D5185m	11200	7712	7273	6720
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6	4	4
Sodium	ppm	ASTM D5185m		1	1	0
Potassium	ppm	ASTM D5185m	>20	3	<1	0
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.30	0.39	0.47
VISUAL		method	limit/base	current	history1	history2
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
	scalar	*Visual	NORML	NORML	NORML	NORML
	scalar	*Visual	>0.2	NEG	NEG	NEG
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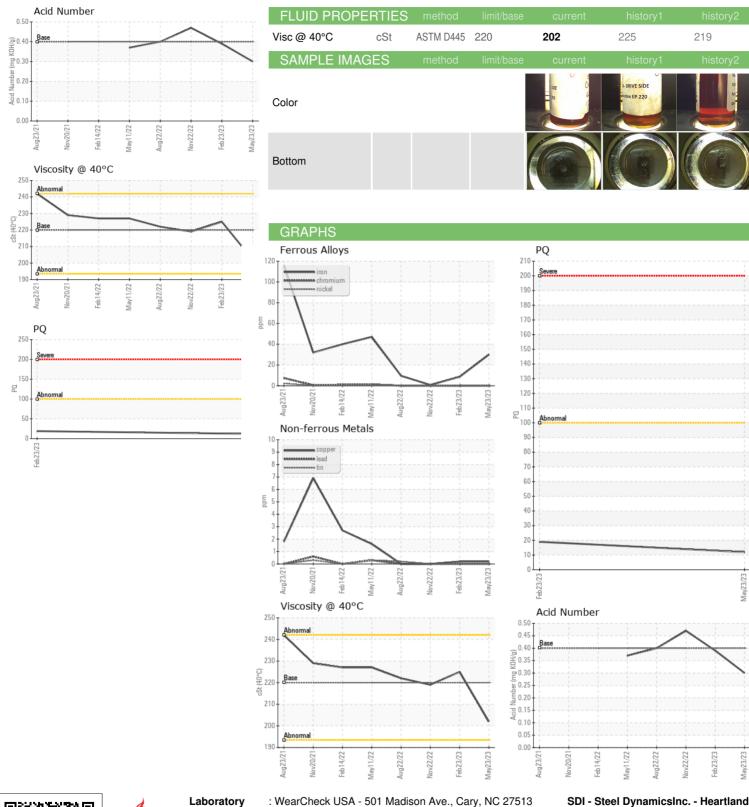
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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : PLANT

: 05894560 : 10550370

: PCA0095472 Received : 10 Jul 2023 Diagnosed : 13 Jul 2023 : Wes Davis Diagnostician

SDI - Steel DynamicsInc. - Heartland 455 West Industrial Drive

Terre Haute, IN US 47802 Contact: BRAD ELLIS

brad.ellis@steeldynamics.com T:

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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