

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Pickle Line

[Pickle Line] 585035-EXIT LOOPER WINCH-DELIVERY

Gearbox

PETRO CANADA ENDURATEX EP 220 (---

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

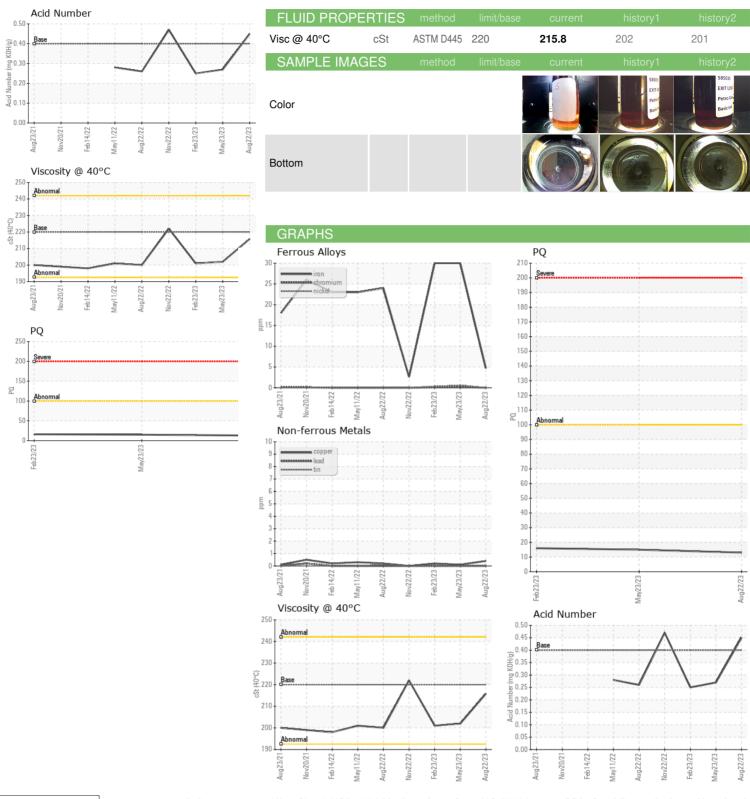
Fluid Condition

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

AL)		Aug2021 No	2021 Feb2022 May2022	Aug 2022 Nov 2022 Feb 2023 May 20	23 Aug2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0101453	PCA0095469	PCA0089504
Sample Date		Client Info		22 Aug 2023	23 May 2023	23 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Dil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
PQ		ASTM D8184		13	15	16
on	ppm	ASTM D5185m	>200	5	30	30
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
lickel	ppm	ASTM D5185m	>15	0	<1	<1
itanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Numinum	ppm	ASTM D5185m	>25	<1	<1	<1
.ead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
in	ppm	ASTM D5185m	>25	0	0	0
 /anadium	ppm	ASTM D5185m	7 = 0	<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	ррш		limit/base		-	
		method		current	history1	history2
Boron	ppm	ASTM D5185m	60	72	4	7
Barium Astricatoroma	ppm	ASTM D5185m	0	0	0	0
Nolybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1	1	<1
Calcium	ppm		0	2	2	4
hosphorus 	ppm	ASTM D5185m	270	279	128	116
linc	ppm	ASTM D5185m	0	0	2	9
Gulfur	ppm	ASTM D5185m	11200	8049	8036	7365
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5	6	7
Sodium	ppm	ASTM D5185m			<1	2
otassium				<1	٠.	
	ppm	ASTM D5185m	>20	<1 1	2	<1
FLUID DEGRA			>20 limit/base			<1 history2
FLUID DEGRAD				1	2	
	DATION	method	limit/base	1 current	2 history1	history2
acid Number (AN)	DATION	method ASTM D8045	limit/base	current	2 history1 0.27	history2 0.25
ocid Number (AN)	DATION mg KOH/g	method ASTM D8045 method	limit/base 0.40 limit/base	current 0.45 current	history1 0.27 history1	history2 0.25 history2
visual Visual Vhite Metal	DATION mg KOH/g scalar	method ASTM D8045 method *Visual	limit/base 0.40 limit/base NONE	1 current 0.45 current NONE	history1 0.27 history1 NONE	history2 0.25 history2 NONE
visual Visual Visual Vhite Metal Vellow Metal	mg KOH/g scalar scalar	method ASTM D8045 method *Visual *Visual	limit/base 0.40 limit/base NONE NONE	1 current 0.45 current NONE NONE	history1 0.27 history1 NONE NONE	history2 0.25 history2 NONE NONE
VISUAL White Metal Yellow Metal Precipitate	mg KOH/g scalar scalar scalar	method ASTM D8045 method *Visual *Visual *Visual	limit/base 0.40 limit/base NONE NONE	1 current 0.45 current NONE NONE NONE	history1 0.27 history1 NONE NONE NONE	history2 0.25 history2 NONE NONE NONE
VISUAL Vhite Metal Vellow Metal Precipitate	scalar scalar scalar scalar	method ASTM D8045 method *Visual *Visual *Visual *Visual	limit/base 0.40 limit/base NONE NONE NONE NONE	1 current 0.45 current NONE NONE NONE NONE	history1 0.27 history1 NONE NONE NONE NONE	history2 0.25 history2 NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar scalar scalar	method ASTM D8045 method *Visual *Visual *Visual *Visual *Visual *Visual	limit/base 0.40 limit/base NONE NONE NONE NONE NONE NONE	1 current 0.45 current NONE NONE NONE NONE NONE NONE	history1 0.27 history1 NONE NONE NONE NONE NONE NONE NONE	history2 0.25 history2 NONE NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar scalar scalar scalar	method ASTM D8045 method *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base 0.40 limit/base NONE NONE NONE NONE NONE NONE NONE NON	1 current 0.45 current NONE NONE NONE NONE NONE NONE NONE NON	history1 0.27 history1 NONE NONE NONE NONE NONE NONE NONE NON	history2 0.25 history2 NONE NONE NONE NONE NONE NONE NONE NON
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar scalar scalar	method ASTM D8045 method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base 0.40 limit/base NONE NONE NONE NONE NONE NONE NONE NON	1 current 0.45 current NONE NONE NONE NONE NONE NONE NONE NON	history1 0.27 history1 NONE NONE NONE NONE NONE NONE NONE NON	history2 0.25 history2 NONE NONE NONE NONE NONE NONE NONE



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Certificate L2367

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

: PCA0101453 : 05932891 : 10618162 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Aug 2023 : 28 Aug 2023 Diagnosed

: Wes Davis Diagnostician

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)

Report Id: SDITER [WUSCAR] 05932891 (Generated: 08/28/2023 17:09:44) Rev: 1

Contact/Location: BRAD ELLIS - SDITER

T:

F: