

## **OIL ANALYSIS REPORT**

## COLD MILL/CM-3STD-1S SOUTH 3-STAND PAYOFF OP GB 1526-007-1265 Component

Gearbox Fluic

PETRO CANADA ENDURATEX EP 320 (100 GAL)



Sample Rating Trend



NORMAL

DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		KFS0004936	KFS0003631	KFS0003626
Resample at the next service interval to monitor.	Sample Date		Client Info		31 Oct 2023	09 Oct 2023	30 Aug 2023
Wear	Machine Age	hrs	Client Info		0	0	0
All component wear rates are normal.	Oil Age	hrs	Client Info		0	0	0
Contamination	Oil Changed		Client Info		N/A	N/A	N/A
The system cleanliness is acceptable for your target	Sample Status				NORMAL	ABNORMAL	ATTENTION
ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	WEAR METALS		method	limit/base	current	history1	history2
Fluid Condition	Iron	ppm	ASTM D5185m	>200	<1	0	1
The AN level is acceptable for this fluid. The	Chromium	ppm	ASTM D5185m	>15	0	0	0
condition of the oil is suitable for further service.	Nickel	ppm	ASTM D5185m	>15	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	0	<1
	Lead	ppm	ASTM D5185m	>100	0	3	0
	Copper	ppm	ASTM D5185m	>200	2	1	2
	Tin	ppm	ASTM D5185m	>25	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	55	41	39	52
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	0	0	0
	Manganese	ppm	ASTM D5185m	0	0	0	<1
	Magnesium	ppm	ASTM D5185m	0	2	4	4
	Calcium	ppm	ASTM D5185m	0	6	0	0
	Phosphorus	ppm	ASTM D5185m		206	225	220
	Zinc	ppm	ASTM D5185m	1	0	0	0
	Sulfur	ppm	ASTM D5185m		6629	7022	7885
	CONTAMINANTS	6	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>50	7	7	8
	Sodium	ppm	ASTM D5185m		0	<1	<1
	Potassium	ppm	ASTM D5185m	>20	<1	1	2
	FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>20000	19927	63073	<b>2</b> 9439
	Particles >6µm		ASTM D7647	>5000	2494	<b>1</b> 1857	4991
	Particles >14µm		ASTM D7647	>640	62	67	84
	Particles >21µm		ASTM D7647	>160	13	8	18
	Particles >38µm		ASTM D7647	>40	1	0	2
	Particles >71µm		ASTM D7647	>10	0	0	1
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/18/13	▲ 23/21/13	▲ 22/19/14
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Aoid Nurshaw (AN)	ma 1/011/-		0.4	0.46	0.50	0.47

Acid Number (AN) mg KOH/g ASTM D8045 0.4

Report Id: CONMUSAL [WUSCAR] 05995531 (Generated: 11/02/2023 11:32:23) Rev: 1

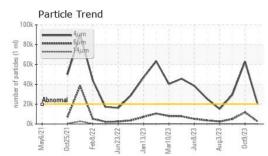
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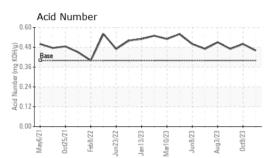
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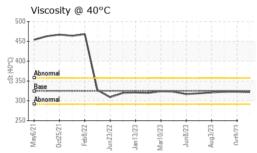
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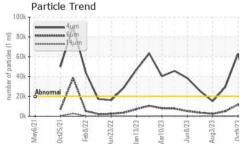


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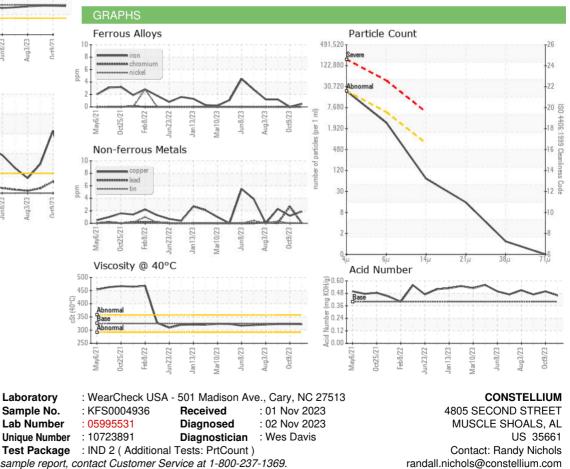








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	325	322	323	323
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						9 0 9 8:50
Bottom						



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)

Certificate L2367

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