

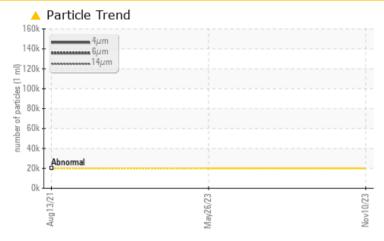
PROBLEM SUMMARY

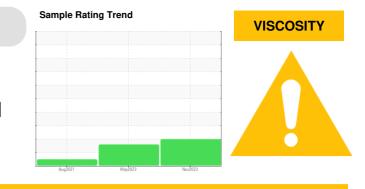
COLD MILL/CM-5-STAND Machine Id DRAG BRIDLE GEARBOX F (CENTER) 1710-003-4131 Component

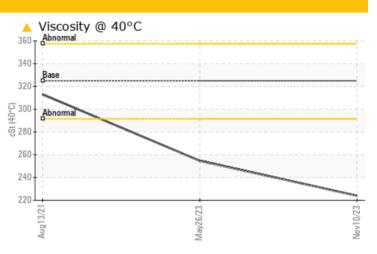
Gearbox

PETRO CANADA ENDURATEX EP 320 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	NORMAL		
Particles >4µm		ASTM D7647	>20000	🔺 156715				
Particles >6µm		ASTM D7647	>5000	<u> </u>				
Particles >14µm		ASTM D7647	>640	<u> </u>				
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>				
Visc @ 40°C	cSt	ASTM D445	325	<u> </u>	▲ 254.7	313		

Customer Id: CONMUSAL Sample No.: KFS0004863 Lab Number: 06007658 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component if applicable.		

HISTORICAL DIAGNOSIS

26 May 2023 Diag: Doug Bogart



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.Moderate concentration of visible metal present. All component wear rates are normal. No other contaminants were detected in the oil. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The AN level is acceptable for this fluid.



13 Aug 2021 Diag: Jonathan Hester



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

COLD MILL/CM-5-STAND Machine Id DRAG BRIDLE GEARBOX F (CENTER) 1710-003-4131

Gearbox

PETRO CANADA ENDURATEX EP 320 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

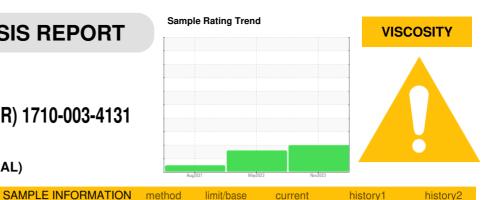
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

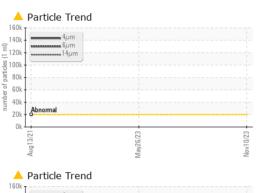
The oil viscosity is lower than normal. The AN level is acceptable for this fluid.

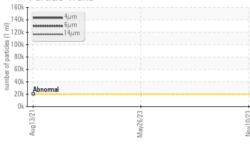


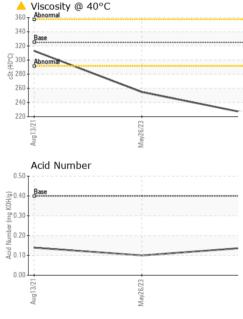
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004863	KFS0003379	KFS0000077
Sample Date		Client Info		10 Nov 2023	26 May 2023	13 Aug 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	59	129	80
Chromium	ppm	ASTM D5185m	>15	0	1	<1
Nickel	ppm	ASTM D5185m	>15	0	1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	1
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	0	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	<1
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	55	0	2	10
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	0	0	<1	0
Calcium	ppm	ASTM D5185m		4	20	1
Phosphorus	ppm	ASTM D5185m	240	85	115	96
Zinc	ppm	ASTM D5185m	1	4	24	0
Sulfur	ppm	ASTM D5185m	13700	5644	6668	5936
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1	3	5
Sodium	ppm	ASTM D5185m		15	67	3
Potassium	ppm	ASTM D5185m	>20	2	19	5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	156715		
Particles >6µm		ASTM D7647	>5000	<u> </u>		
Particles >14µm		ASTM D7647	>640	689		
Particles >21µm		ASTM D7647	>160	63		
Particles >38µm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 24/23/17		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.14	0.10	0.139
. ,						



OIL ANALYSIS REPORT

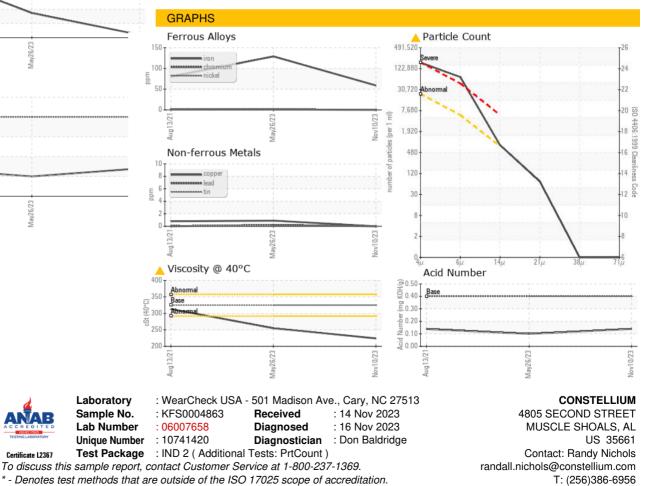


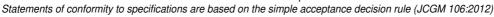




VISUAL		method	limit/base	current	history1	history2
VISUAL		method	innii/base	current	nistory i	nistory2
White Metal	scalar	*Visual	NONE	NONE	🔺 MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPERTIES		method	limit/base	current	history1	history2
	IES	method	innii/base	current	nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445	325	A 224	▲ 254.7	313
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					A LEASE	HE SOUTH

Bottom





Certificate L2367

Submitted By: Kenneth Humphries

Page 4 of 4

F: