

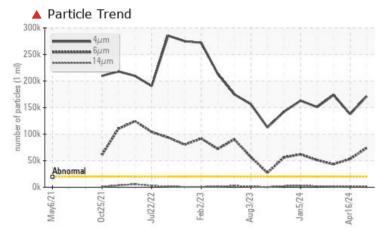
PROBLEM SUMMARY

Area COLD MILL/CM-3STD-1S SOUTH 3-STAND REWIND GEARBOX 1526-007-7540

Gearbox

PETRO CANADA ENDURATEX EP 460 (100 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS Sample Status SEVERE SEVERE SEVERE Particles >4µm ASTM D7647 >20000 **1**71399 ▲ 137609 ▲ 173703 Particles >6µm ASTM D7647 >5000 **A** 73957 ▲ 53153 ▲ 43353 Particles >14µm ASTM D7647 >640 **1929 1453** 1144 **Oil Cleanliness** ISO 4406 (c) >21/19/16 **425/23/18** 24/23/18 ▲ 25/23/17

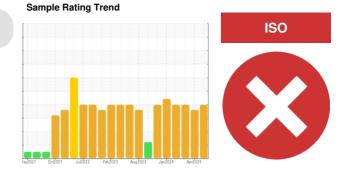
Customer Id: CONMUSAL Sample No.: KFS0004441 Lab Number: 06184285 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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



RECOMMENDED	ACTIONS			
Action Change Filter	Status	Date	Done By	Description We recommend you service the filters on this component.
Deserve			?	Descurity in 00.45 days to see that this should be
Resample			?	Resample in 30-45 days to monitor this situation.
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Seals			?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS



16 Apr 2024 Diag: Wes Davis

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





29 Feb 2024 Diag: Wes Davis

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





05 Feb 2024 Diag: Wes Davis

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





OIL ANALYSIS REPORT

Area COLD MILL/CM-3STD-1S Machine to SOUTH 3-STAND REWIND GEARBOX 1526-007-7540 Component

Gearbox

PETRO CANADA ENDURATEX EP 460 (100 GAL)

DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

Wear

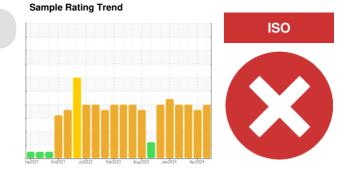
All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



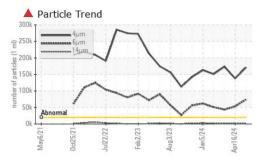
Sample Date Client Info 16 May 2024 16 Apr 2024 29 Feb 2024 Machine Age hrs Client Info 0 0 0 Oil Opaged Client Info N/A N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A War WC Method >0.2 NEG NEG NEG War WC Method >0.2 NEG NEG NEG WeAR METALS method limit/base current history1 history2 Iron ppm ASTM 05165m >10 0 0 0 Nickel ppm ASTM 05165m >25 0 <11	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info NA N/A N/A Sample Status Imail/base current historyl historyl Water WC Method >0.2 NEG NEG WEAR METALS method limil/base current historyl historyl Iron ppm ASTM D5185m >200 16 9 7 Chromium ppm ASTM D5185m >15 0 0 0 Nickel ppm ASTM D5185m >15 0 -1 0 Copper ppm ASTM D5185m >25 0 -1 0 Cadmium ppm ASTM D5185m >20 0 -1 0 Cadmium ppm ASTM D5185m >20 0 -1 0 Cadmium ppm ASTM D5185m 20 0 0 0 Cadmium ppm	Sample Number		Client Info		KFS0004441	KFS0004478	KFS0004665
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Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base ourrent history1 history2 Iron ppm ASTM 05185m >200 16 9 7 Chromium ppm ASTM 05185m >15 0 0 0 Nickel ppm ASTM 05185m >15 0 -1 0 Silver ppm ASTM 05185m >25 0 <1 0 Aluminum ppm ASTM 05185m >25 0 <1 0 Copper ppm ASTM 05185m >25 0 <1 0 Tin ppm ASTM 05185m >20 0 0 0 Cadmium ppm ASTM 05185m 0 0 0 0 Magnaese ppm ASTM 05185m 0 0 0 0 0 Magnaese ppm ASTM 05185m 2 2 1 1	-				SEVERE	SEVERE	SEVERE
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Nickel ppm ASTM D5185m >15 0 <1 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >25 0 <1	Iron	ppm	ASTM D5185m	>200	16	9	7
Nickel ppm ASTM D5185m >15 0 <1 0 Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >25 0 <1	Chromium	ppm	ASTM D5185m	>15	0	0	0
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Aluminum ppm ASTM D5185m >25 0 <1 0 Lead ppm ASTM D5185m >100 0 <1	Titanium	ppm	ASTM D5185m		0	0	0
Atuminum ppm ASTM D5185m >25 0 <1 0 Lead ppm ASTM D5185m >100 0 <1	Silver		ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >100 0 <1 0 Copper ppm ASTM D5185m >200 0 <1	Aluminum		ASTM D5185m	>25	0	<1	0
Copper ppm ASTM D5185m >200 0 <1 0 Tin ppm ASTM D5185m >25 0 <1	Lead		ASTM D5185m	>100	0	<1	0
Tin ppm ASTM D5185m >25 0 <1 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES rethod limit/base current history1 history2 Boron ppm ASTM D5185m 5 34 36 30 Barium ppm ASTM D5185m 0 0 0 0 Magnese ppm ASTM D5185m 0 0 <1	Copper		ASTM D5185m	>200	0	<1	0
Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 55 34 36 30 Borium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 2 <1			ASTM D5185m	>25	0	<1	0
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Marganese ppm ASTM D5185m 0 0 <1 0 Magnesium ppm ASTM D5185m 2 <1	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 2 <1 1 0 Calcium ppm ASTM D5185m 6 <1	Molybdenum	ppm	ASTM D5185m	0	0	0	0
Calcium ppm ASTM D5185m 6 <1 1 0 Phosphorus ppm ASTM D5185m 240 205 209 195 Zinc ppm ASTM D5185m 3 <1	Manganese	ppm	ASTM D5185m	0	0	<1	0
Phosphorus ppm ASTM D5185m 240 205 209 195 Zinc ppm ASTM D5185m 3 <1	Magnesium	ppm	ASTM D5185m	2	<1	1	0
Zinc ppm ASTM D5185m 3 <1 0 0 Sulfur ppm ASTM D5185m 10310 8372 8735 7051 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 8 8 8 Sodium ppm ASTM D5185m >50 8 8 8 Sodium ppm ASTM D5185m >50 8 8 8 Potassium ppm ASTM D5185m >20 0 3 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 ▲ 171399 137609 173703 Particles >6µm ASTM D7647 >5000 ▲ 73957 ▲ 53153 ▲ 43353 Particles >14µm ASTM D7647 >640 1929 1453 1144 Particles >38µm ASTM D7647 >10 0	Calcium	ppm	ASTM D5185m	6	<1	1	0
Sulfur ppm ASTM D5185m 10310 8372 8735 7051 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 8 8 8 Sodium ppm ASTM D5185m >50 8 8 8 Sodium ppm ASTM D5185m >20 0 2 0 Potassium ppm ASTM D5185m >20 0 3 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 171399 137609 173703 Particles >6µm ASTM D7647 >640 1929 1453 1144 Particles >14µm ASTM D7647 >640 205 151 137 Particles >21µm ASTM D7647 >100 0 0 0 0 Oil Cleanliness ISO 4406 (c) 21/19/16 25/23/18	Phosphorus	ppm	ASTM D5185m	240	205	209	195
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 8 8 8 Sodium ppm ASTM D5185m >50 8 8 8 Sodium ppm ASTM D5185m 0 2 0 Potassium ppm ASTM D5185m >20 0 3 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 ▲ 171399 ▲ 137609 ▲ 173703 Particles >6µm ASTM D7647 >5000 ▲ 73957 ▲ 53153 ▲ 43353 Particles >14µm ASTM D7647 >640 ▲ 1929 ▲ 1453 ● 1144 Particles >21µm ASTM D7647 >40 2 1 1 Particles >38µm ASTM D7647 >10 0 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 25/23/18 24/23/18 <td>Zinc</td> <td>ppm</td> <td>ASTM D5185m</td> <td>3</td> <th><1</th> <td>0</td> <td>0</td>	Zinc	ppm	ASTM D5185m	3	<1	0	0
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Sodium ppm ASTM D5185m 0 2 0 Potassium ppm ASTM D5185m >20 0 3 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 ▲ 171399 ▲ 137609 ▲ 173703 Particles >6µm ASTM D7647 >20000 ▲ 73957 ▲ 53153 ▲ 43353 Particles >6µm ASTM D7647 >640 ▲ 1929 ▲ 1453 ● 1144 Particles >21µm ASTM D7647 >160 205 151 137 Particles >38µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 25/23/18 ▲ 24/23/18 ▲ 25/23/17 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.5 0.48 0.53 0.60	CONTAMINANTS	8	method	limit/base	current	history1	history2
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Potassium ppm ASTM D5185m >20 0 3 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 171399 137609 173703 Particles >6µm ASTM D7647 >5000 73957 53153 43353 Particles >14µm ASTM D7647 >640 1929 1453 1144 Particles >21µm ASTM D7647 >160 205 151 137 Particles >38µm ASTM D7647 >40 2 1 1 Particles >38µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 25/23/18 24/23/18 25/23/17 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg K0H/g ASTM D8045 0.5 0.48 0.53 0.60	Sodium	ppm	ASTM D5185m		0	2	0
Particles >4μm ASTM D7647 >20000 ▲ 171399 ▲ 137609 ▲ 173703 Particles >6μm ASTM D7647 >5000 ▲ 73957 ▲ 53153 ▲ 43353 Particles >14μm ASTM D7647 >640 ▲ 1929 ▲ 1453 ● 1144 Particles >21μm ASTM D7647 >160 205 151 137 Particles >21μm ASTM D7647 >160 205 151 137 Particles >38μm ASTM D7647 >40 2 1 1 Particles >71μm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 ▲ 25/23/18 ▲ 24/23/18 ▲ 25/23/17 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.5 0.48 0.53 0.60	Potassium		ASTM D5185m	>20	0	3	0
Particles >6µm ASTM D7647 >5000 ▲ 73957 ▲ 53153 ▲ 43353 Particles >14µm ASTM D7647 >640 ▲ 1929 ▲ 1453 ● 1144 Particles >21µm ASTM D7647 >160 205 151 137 Particles >38µm ASTM D7647 >40 2 1 1 Particles >38µm ASTM D7647 >40 2 1 1 Particles >71µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 ▲ 25/23/18 ▲ 24/23/18 ▲ 25/23/17 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.5 0.48 0.53 0.60	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
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Particles >38μm ASTM D7647 >40 2 1 1 Particles >71μm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 25/23/18 24/23/18 25/23/17 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.5 0.48 0.53 0.60							
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FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg K0H/g ASTM D8045 0.5 0.48 0.53 0.60							
Acid Number (AN) mg KOH/g ASTM D8045 0.5 0.48 0.53 0.60	Oil Cleanliness		ISO 4406 (c)	>21/19/16	25/23/18	4 /23/18	▲ 25/23/17
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
3:43:36) Rev: 1 Submitted By: COLD MILL - Josh Edward	()	mg KOH/g	ASTM D8045	0.5	0.48	0.53	0.60

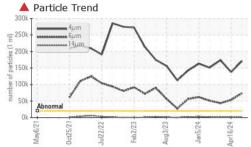
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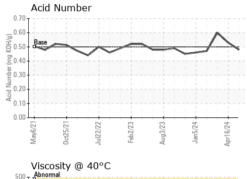
Submitted By: COLD MILL - Josh Edwards Page 3 of 4

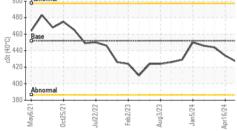


OIL ANALYSIS REPORT

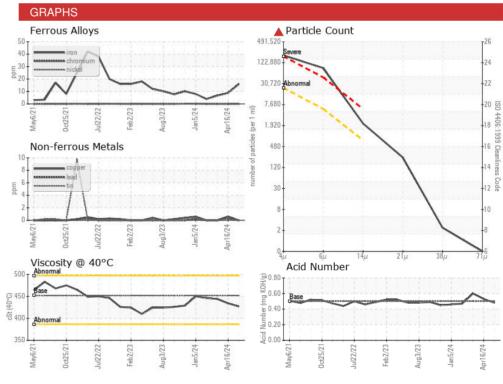








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	452	427	434	444
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
Color						a. Seek 3 Revel in
Bottom						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 CONSTELLIUM 4805 SECOND STREET Sample No. : KFS0004441 Received : 20 May 2024 Lab Number : 06184285 Tested : 21 May 2024 MUSCLE SHOALS, AL Unique Number : 11035611 Diagnosed : 21 May 2024 - Wes Davis US 35661 Test Package : IND 2 (Additional Tests: PrtCount) **Contact: Randy Nichols** Certificate 12367 randall.nichols@constellium.com To discuss this sample report, contact Customer Service at 1-800-237-1369. T: (256)386-6956 * - 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) F:

Report Id: CONMUSAL [WUSCAR] 06184285 (Generated: 05/21/2024 13:43:36) Rev: 1

Submitted By: COLD MILL - Josh Edwards

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