

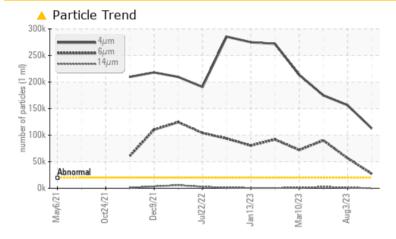
PROBLEM SUMMARY

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

Gearbox

Fluid PETRO CANADA ENDURATEX EP 460 (100 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	SEVERE	SEVERE		
Particles >4µm	ASTM D7647	>20000	🔺 112643	156354	174867		
Particles >6µm	ASTM D7647	>5000	🔺 27243	• 56685	90105		
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<u> </u>	• 24/23/17	25/24/19		

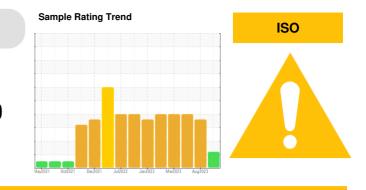
Customer Id: CONMUSAL Sample No.: KFS0003829 Lab Number: 05959059 Test Package: IND 2



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	Status	Date	Done By	Description	
Change Filter			?	We recommend you service the filters on this component.	
Resample			?	We recommend an early resample to monitor this condition.	

HISTORICAL DIAGNOSIS



03 Aug 2023 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.



view report

03 Jul 2023 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.

10 Mar 2023 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. Particles >6µm are severely high. Particles >4µm are severely high. Oil Cleanliness are severely high. Particles >14µm are notably high. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report



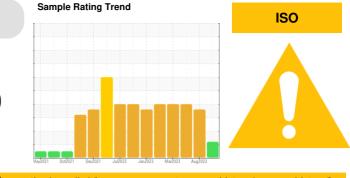


OIL ANALYSIS REPORT

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

Gearbox

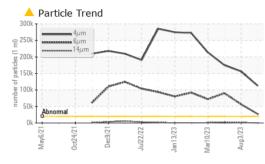
Fluid PETRO CANADA ENDURATEX EP 460 (100 GAL)

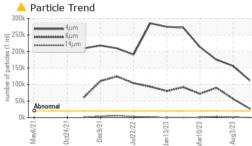


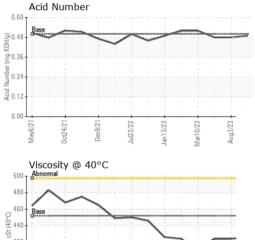
▲ RecommendationSample NumberClient InfoKFS0003829KFS0003813We recommend you service the filters on this component. We recommend an early resample to monitor this condition.Sample DateClient Info21 Sep 202303 Aug 2023Machine AgehrsClient Info00WearOil AgehrsClient Info00All component wear rates are normal.Oil ChangedClient InfoN/AN/AAll component wear rates are normal.Oil ChangedClient InfoN/AN/AMere is a moderate amount of silt (particulates < 14 microns in size) present in the oil.WEAR METALSmethodlimit/basecurrenthistory1Fluid ConditionIronppmASTM D5185m<>20081000The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.NickelppmASTM D5185m>1500SilverppmASTM D5185m00000	KFS0003779 03 Jul 2023 0 0 N/A SEVERE history2 12
Machine AgehrsClient Info00Nonitor this condition.Oil AgehrsClient InfoO0VearOil AgehrsClient InfoO0Oil ChangedClient InfoN/AN/ASample StatusImageN/ASevEREContaminationSample StatusImageImagehistory1here is a moderate amount of silt (particulates <	0 0 N/A SEVERE history2
Machine AgeInsOrient InfoOVearOil AgehrsClient InfoOOOil AgehrsClient InfoOOOil AgeClient InfoN/AN/AIl component wear rates are normal.Oil ChangedClient InfoN/AN/AContaminationSample StatusImageImageImageImageImageThere is a moderate amount of silt (particulates <	0 N/A SEVERE history2
Vear Oil Age hrs Client Info 0 0 Vear Oil Changed Client Info N/A N/A Il component wear rates are normal. Contamination ABNORMAL SEVERE Contamination Nere is a moderate amount of silt (particulates < 4 microns in size) present in the oil.	N/A SEVERE history2
Il component wear rates are normal. Sample Status ABNORMAL SEVERE Contamination Nere is a moderate amount of silt (particulates < 4 microns in size) present in the oil.	SEVERE history2
Contamination WEAR METALS method limit/base current history1 weak microns in size) present in the oil. Iron ppm ASTM D5185m >200 8 10 ruid Condition Chromium ppm ASTM D5185m >15 0 0 he AN level is acceptable for this fluid. The oil is Nickel ppm ASTM D5185m >15 0 0 Titanium ppm ASTM D5185m >15 0 0 0	history2
WEAR METALS method limit/base current history1 here is a moderate amount of silt (particulates < 4 microns in size) present in the oil.	
4 microns in size) present in the oil. Iron ppm ASTM D5185m >200 8 10 Iuid Condition Chromium ppm ASTM D5185m >15 0 0 he AN level is acceptable for this fluid. The oil is Nickel ppm ASTM D5185m >15 0 0 till serviceable provided that the contaminant(s) Titanium ppm ASTM D5185m <0	12
he AN level is acceptable for this fluid. The oil is Nickel ppm ASTM D5185m >15 0 0 till serviceable provided that the contaminant(s) Titanium ppm ASTM D5185m 0 0	
ill serviceable provided that the contaminant(s) Titanium ppm ASTM D5185m 0 0	0
an ha reduced to accentable levels	0
an be reduced to acceptable levels. Silver por ASTM D5185m 0 0	0
	0
Aluminum ppm ASTM D5185m >25 0 <1	<1
Lead ppm ASTM D5185m >100 0 0	0
Copper ppm ASTM D5185m >200 <1 0	<1
Tin ppm ASTM D5185m >25 0 0	0
Vanadium ppm ASTM D5185m 0 0	<1
CadmiumppmASTM D5185m00	0
ADDITIVES method limit/base current history1	history2
Boron ppm ASTM D5185m 55 28 45	59
Barium ppm ASTM D5185m 0 0 0 0	0
Molybdenum ppm ASTM D5185m 0 0 0	0
Manganese ppm ASTM D5185m 0 0 0	0
Magnesium ppm ASTM D5185m 2 <1 4	<1
Calcium ppm ASTM D5185m 6 <1	0
Phosphorus ppm ASTM D5185m 240 186 217	251
Zinc ppm ASTM D5185m 3 4 0	0
Sulfur ppm ASTM D5185m 10310 6143 7706	7632
CONTAMINANTS method limit/base current history1	history2
Silicon ppm ASTM D5185m >50 4 3	4
Sodium ppm ASTM D5185m 0 0	0
Potassium ppm ASTM D5185m >20 <1 0	0
FLUID CLEANLINESS method limit/base current history1	history2
Particles >4μm ASTM D7647 >20000 ▲ 112643 ▲ 156354	174867
Particles >6μm ASTM D7647 >5000 🔺 27243 🌲 56685	90105
	A 2661
Particles >14µm ASTM D7647 >640 335 ▲ 1181	201
	1
Particles >21μm ASTM D7647 >160 37 110 Particles >38μm ASTM D7647 >40 1 2	
Particles >21μm ASTM D7647 >160 37 110 Particles >38μm ASTM D7647 >40 1 2	1 0 25/24/19
Particles >21μm ASTM D7647 >160 37 110 Particles >38μm ASTM D7647 >40 1 2 Particles >71μm ASTM D7647 >10 1 0	0



OIL ANALYSIS REPORT







420

400 Ab

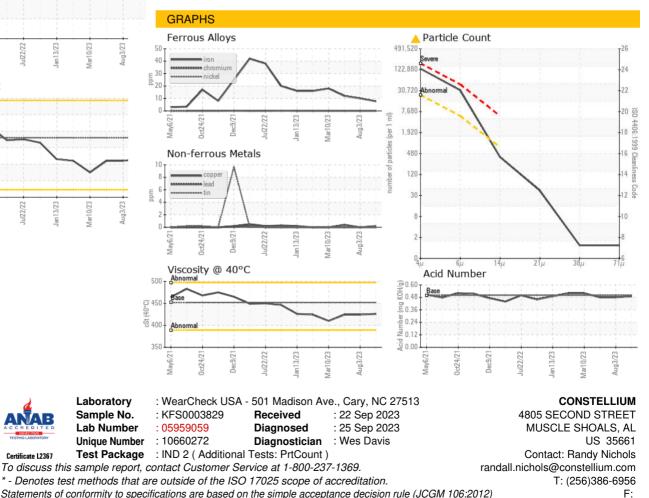
380

Mav6/7

C/6-al

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	426	424	424
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				a.	and lit le-03-23	3 Stauled

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: Kenneth Humphries

Page 4 of 4