

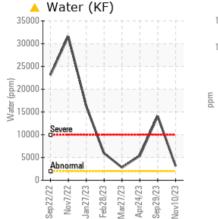
PROBLEM SUMMARY

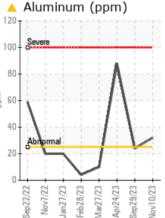
HOTLINE/120 MILL Machine Id 120 TRIMMER 1415-003-0020 Component

Gearbox

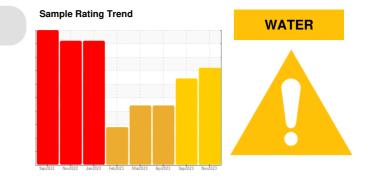
PETRO CANADA ENDURATEX EP 220 (700 GAL)

COMPONENT CONDITION SUMMARY



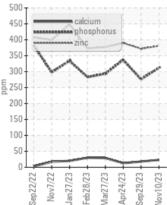


Visc @ 40°C



Viscosity @ 40°C 260 Abnormal 240 Base 220 200 (0°0) (180 Abnorma 쟔 160 140 120 100 Vov10/23 Nov7/22 Sep29/23 Jan27/23 Feb28/23 Apr24/23 Sep 22/22 Mar27/23

🔺 Additives



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS SEVERE Sample Status ABNORMAL ABNORMAL Aluminum ASTM D5185m >25 32 24 88 ppm Zinc ASTM D5185m 0 381 372 390 ppm Sulfur 522 ASTM D5185m 11200 808 890 ppm Water % ASTM D6304 >0.2 0.314 1.41 ▲ 0.538 ASTM D6304 >2000 3140 14100 ▲ 5380 ppm Water ppm Silt scalar *Visual NONE HEAVY NONE ▲ HEAVY *Visual NONE MODER NONE NONE Debris scalar Appearance *Visual NORML MILKY NORML A MILKY scalar Free Water scalar *Visual **1.0** NEG NEG

133

135

124

ASTM D445 220

cSt

Customer Id: CONMUSAL Sample No.: KFS0004819 Lab Number: 06007663 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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

RECOMMENDED	ACTIONS						
Action	Status	Date	Done By	Description			
Water Drain-off			?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	We recommend an early resample to monitor this condition.			

HISTORICAL DIAGNOSIS



29 Sep 2023 Diag: Jonathan Hester

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of particulates present in the oil. There is a high concentration of water present in the oil. The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.



24 Apr 2023 Diag: Doug Bogart



We advise that you check for the source of water entry. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. The aluminum level is abnormal. Appearance is milky. There is a high amount of visible silt present in the sample. There is a moderate concentration of water present in the oil. The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

27 Mar 2023 Diag: Don Baldridge





We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. Appearance is hazy. There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil. The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.



view report







OIL ANALYSIS REPORT

Area HOTLINE/120 MILL Machine Id 120 TRIMMER 1415-003-0020 Component

Gearbox

PETRO CANADA ENDURATEX EP 220 (700 GAL)

DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

🔺 Wear

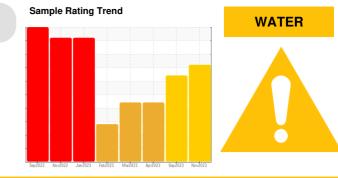
All component wear rates are normal.

Contamination

Appearance is milky. There is a high amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil. Free water present.

Fluid Condition

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

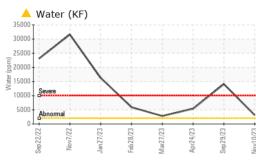


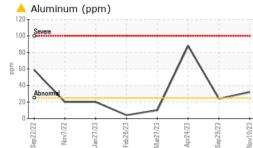
SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004819	KFS0004888	KFS0003767
Sample Date		Client Info		10 Nov 2023	29 Sep 2023	24 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	13	12	58
Chromium	ppm	ASTM D5185m	>15	0	<1	0
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	<u> </u>	24	<u> </u>
Lead	ppm	ASTM D5185m	>100	1	0	0
Copper	ppm	ASTM D5185m	>200	1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		2	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	60	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	0	2	1	<1
Calcium	ppm	ASTM D5185m	0	23	18	13
Phosphorus	ppm	ASTM D5185m	270	312	276	337
Zinc	ppm	ASTM D5185m	0	<u> </u>	372	390
Sulfur	ppm	ASTM D5185m	11200	<mark> 808</mark>	890	522
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	0	1	<1
Sodium	ppm	ASTM D5185m		0	5	<1
Potassium	ppm	ASTM D5185m	>20	2	<1	2
Water	%	ASTM D6304	>0.2	6 0.314	1.41	▲ 0.538
ppm Water	ppm	ASTM D6304	>2000	A 3140	• 14100	▲ 5380
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		4 0610	
Particles >6µm		ASTM D7647	>5000		<u> </u>	
Particles >14µm		ASTM D7647	>640		A 3765	
Particles >21µm		ASTM D7647	>160		1 268	
Particles >38µm		ASTM D7647	>40		1 96	
Particles >71µm		ASTM D7647	>10		<u> </u>	
Oil Cleanliness		ISO 4406 (c)	>21/19/16		▲ 23/22/19	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.65	0.70	1.04

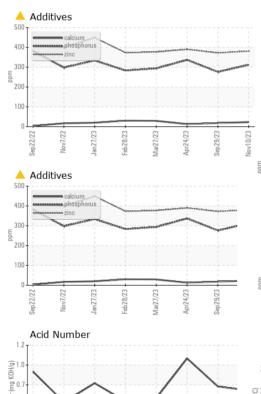
Submitted By: Kenneth Humphries



OIL ANALYSIS REPORT



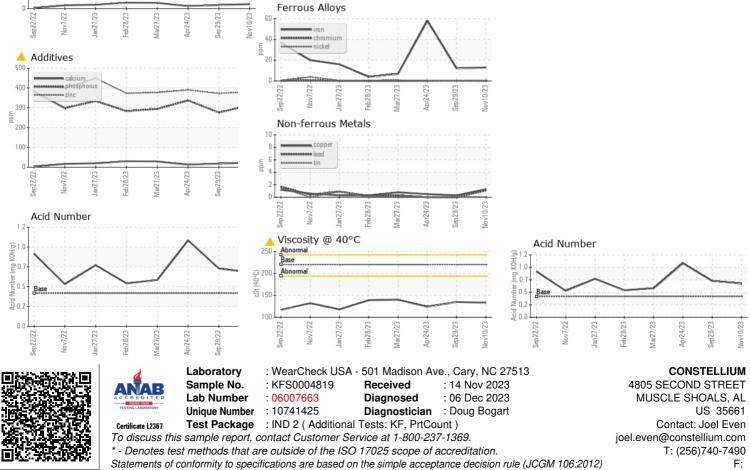




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	🔺 HEAVY	NONE	🔺 HEAVY
Debris	scalar	*Visual	NONE	A MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🔺 MILKY	NORML	🔺 MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	▲ 0.2%
Free Water	scalar	*Visual		1.0	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	A 133	1 35	1 24
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color Color						
-						

Bottom





Submitted By: Kenneth Humphries

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