

# **PROBLEM SUMMARY**

#### Area 1313 Machine Id RECLAIM FEEDER 2 Component

**Gearbox** 

PETRO CANADA ENDURATEX EP 460 (300 LTR)

# COMPONENT CONDITION SUMMARY



## RECOMMENDATION

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

PROBLEMATIC TEST RESULTS							
Sample Status			ATTENTION	ABNORMAL	ABNORMAL		
Particles >4µm	ASTM D7647	>20000	<u> </u>	<b>4</b> 8438	<b>4</b> 91115		
Particles >6µm	ASTM D7647	>5000	<b>6</b> 5926	🔺 11168	<b>4</b> 9392		
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<u> </u>	▲ 23/21/17	<b>4</b> /20/15		

Customer Id: INCVOS Sample No.: PC0070108 Lab Number: 02582971 Test Package: IND 2



To manage this report scan the QR code

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To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com



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

## HISTORICAL DIAGNOSIS



## 29 Apr 2023 Diag: Wes Davis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate 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

view report

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OFF SPEC



### 20 Nov 2022 Diag: Kevin Marson

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles  $>4\mu$ m and oil cleanliness are abnormally high. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. 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 1313 **RECLAIM FEEDER 2** Component

Gearbox Fluid

# PETRO CANADA ENDURATEX EP 460 (300 LTR)

## DIAGNOSIS

### Recommendation

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

## Wear

All component wear rates are normal.

## Contamination

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

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



SAMPLE INFORM	<b>/ATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0070108	PC0057683	PC0057688
Sample Date		Client Info		13 Aug 2023	29 Apr 2023	29 Apr 2023
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	8	7	13
Chromium	ppm	ASTM D5185(m)	>15	0	0	0
Nickel	ppm	ASTM D5185(m)	>15	3	3	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	0	0
Lead	ppm	ASTM D5185(m)	>100	0	0	<1
Copper	ppm	ASTM D5185(m)	>200	2	3	<1
Tin	ppm	ASTM D5185(m)	>25	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	55	11	12	17
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	2	<1	0	0
Calcium	ppm	ASTM D5185(m)	6	1	0	0
Phosphorus	ppm	ASTM D5185(m)	240	250	256	256
Zinc	ppm	ASTM D5185(m)	3	7	7	1
Sulfur	ppm	ASTM D5185(m)	10310	8941	9001	9119
Lithium	ppm	ASTM D5185(m)		<1	<1	4
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	5	5	6
Sodium	ppm	ASTM D5185(m)		2	2	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>A</b> 38438	▲ 48438	<b>4</b> 91115
Particles >6µm		ASTM D7647	>5000	<u> </u>	<b>1</b> 1168	<b>4</b> 9392
Particles >14µm		ASTM D7647	>640	324	▲ 839	212
Particles >21µm		ASTM D7647	>160	54	127	28

FLUID DEGRADATION method limit/base mg KOH/g ASTM D974\* 0.5

ASTM D7647 >10

ISO 4406 (c) >21/19/16 🔺 22/20/16

0

current

Particles >71µm

**Oil Cleanliness** 

Acid Number (AN)

0.38 0.38 0.56

▲ 23/21/17

1

Contact/Location: Robert Feltham - INCVOS

history1

history2

0

▲ 24/20/15



# **OIL ANALYSIS REPORT**







36

34

32

24

22

20

500 Ba 450

400

250

200

15

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Vov1/06

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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	452	476	473	471
Visc @ 100°C	cSt	ASTM D7279(m)	30.41	31.4	31.1	31.3
Viscosity Index (VI)	Scale	ASTM D2270*	97	96	95	96
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color						

Bottom

