

PROBLEM SUMMARY

Sample Rating Trend

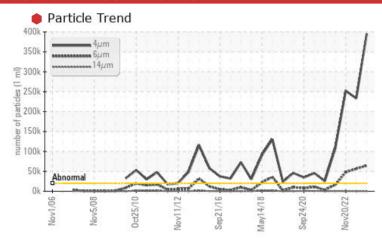
ISO

1313 Machine Id RECLAIM FEEDER 1

Component **Gearbox**

PETRO CANADA ENDURATEX EP 460 (200 LTR)

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 T	EST RESULTS			
Sample Status		SEVERE	SEVERE	SEVERE
Particles >4µm	ASTM D7647 >200	000 00395212	233135	252174
Particles >6µm	ASTM D7647 >500	00 64255	56450	47735
Oil Cleanliness	ISO 4406 (c) >21/	19/16 0 26/23/16	25/23/15	25/23/15

Customer Id: INCVOS Sample No.: PC0070663 Lab Number: 02582972 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: 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. Resample ? Resample in 30-45 days to monitor this situation. The air breather requires service. If unrated, we recommend that you replace with a ? **Check Breathers** 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

29 Apr 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.



20 Nov 2022 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. Oil Cleanliness are severely high. Particles >4µm are severely 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.



12 Jul 2022 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. Oil Cleanliness are abnormally high. Particles $>4\mu m$ are abnormally high. Particles $>6\mu m$ are abnormally high. Particles $>14\mu m$ 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.



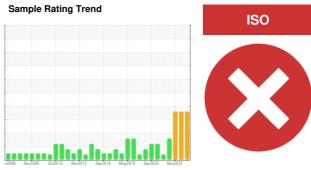


OIL ANALYSIS REPORT

Area 1313 **RECLAIM FEEDER 1**

Gearbox

PETRO CANADA ENDURATEX EP 460 (200 LTR)



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 INFORMATION method limit/base current history1	nistory2
Sample Number Client Info PC0070663 PC0057686 PC00)57441
Sample Date Client Info 14 Aug 2023 29 Apr 2023 20 N	ov 2022
Machine Age yrs Client Info 0 0	
Oil Age yrs Client Info 0 0	
Oil Changed Client Info N/A N/A N/A	
Sample Status SEVERE SEVERE SEV	ERE
WEAR METALS method limit/base current history1	nistory2
Iron ppm ASTM D5185(m) >200 14 10 8	
Chromium ppm ASTM D5185(m) >15 0 0 0	
Nickel ppm ASTM D5185(m) >15 <1 <1 <1	
Titanium ppm ASTM D5185(m) 0 0 0	
Silver ppm ASTM D5185(m) 0 0 0	
Aluminum ppm ASTM D5185(m) >25 <1 0	
Lead ppm ASTM D5185(m) >100 0 0 0	
Copper ppm ASTM D5185(m) >200 <1 <1 <1	
Tin ppm ASTM D5185(m) >25 0 0 0	
Antimony ppm ASTM D5185(m) >5 0 <1 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	nistory2
Boron ppm ASTM D5185(m) 55 5 5	
Barium ppm ASTM D5185(m) 0 0 0 0	
Molybdenum ppm ASTM D5185(m) 0 0 0	
Manganese ppm ASTM D5185(m) 0 0 0	
Magnesium ppm ASTM D5185(m) 2 <1 0 0	
Calcium ppm ASTM D5185(m) 6 <1	
Phosphorus ppm ASTM D5185(m) 240 54 51 81	
Zinc ppm ASTM D5185(m) 3 3 2 2	
	106
Lithium ppm ASTM D5185(m) <1 <1	
CONTAMINANTS method limit/base current history1	nistory2
Silicon ppm ASTM D5185(m) >50 2 1 2	
Sodium ppm ASTM D5185(m) <1	
Potassium ppm ASTM D5185(m) >20 <1	
	nistory2
FLUID CLEANLINESS method limit/base current history1	
FLUID CLEANLINESS method limit/base current history1 limit/base squared particles >4μm ASTM D7647 >20000 395212 233135 25	nistory2
FLUID CLEANLINESS method limit/base current history1 Particles >4μm ASTM D7647 >20000 395212 233135 2 5	nistory2 52174 7735
FLUID CLEANLINESS method limit/base current history1 I Particles >4μm ASTM D7647 >20000 395212 233135 25 Particles >6μm ASTM D7647 >5000 64255 56450 47	nistory2 52174 7735
FLUID CLEANLINESS method limit/base current history1 L Particles >4μm ASTM D7647 >20000 395212 233135 25 Particles >6μm ASTM D7647 >5000 64255 56450 47 Particles >14μm ASTM D7647 >640 489 264 28	nistory2 52174 7735
FLUID CLEANLINESS method limit/base current history1 Particles >4μm ASTM D7647 >20000 395212 233135 25 Particles >6μm ASTM D7647 >5000 64255 56450 47 Particles >14μm ASTM D7647 >640 489 264 28 Particles >21μm ASTM D7647 >160 80 28 39	nistory2 52174 7735
FLUID CLEANLINESS method limit/base current history1 Particles >4μm ASTM D7647 >20000 395212 233135 25 Particles >6μm ASTM D7647 >5000 64255 56450 47 Particles >14μm ASTM D7647 >640 489 264 28 Particles >21μm ASTM D7647 >160 80 28 39 Particles >38μm ASTM D7647 >40 1 0 0 Particles >71μm ASTM D7647 >10 0 0 0	nistory2 52174 7735

mg KOH/g ASTM D974* 0.5

Acid Number (AN)

0.63

0.93



OIL ANALYSIS REPORT

