

PROBLEM SUMMARY

Sample Rating Trend

ISO

OR 2

Area 1623

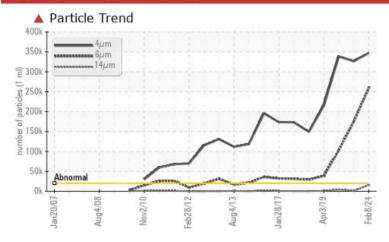
1623-5522-6003 - RECLAIM CONVEYOR 2

Gearbox

PETRO CANADA ENDURATEX SYNTHETIC EP 220 (100 LTR)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique. DISCLAIMER: Interpretation of results is based on

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PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	SEVERE		
Particles >4µm		ASTM D7647	>20000	4 346780	▲ 326416	▲ 338747		
Particles >6µm		ASTM D7647	>5000	258649	174945	▲ 102898		
Particles >14μm		ASTM D7647	>640	15205	<u>▲</u> 1335	4623		
Particles >21μm		ASTM D7647	>160	520	173	<u></u> 658		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	2 6/25/21	2 6/25/18	2 6/24/19		
Silt	scalar	Visual*	NONE	MODER	NONE	NONE		
Debris	scalar	Visual*	NONE	▲ LIGHT	NONE	NONE		

Customer Id: INCVOS Sample No.: PC0070737 Lab Number: 02616092 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

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 advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		
Resample			?	Resample in 30-45 days to monitor this situation.		
Alert			?	We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique. DISCLAIMER: Interpretation of results is based on the sample as received from the customer. The condition of the sample and the method of sampling cannot be verified.		
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 Dirt Access			?	We advise that you check all areas where contaminants can enter the system.		
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		

HISTORICAL DIAGNOSIS

30 Oct 2022 Diag: Wes Davis

ISO



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 abnormally 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.



21 Dec 2020 Diag: Wes Davis

ISO



We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. All component wear rates are normal. Particles >6 μ m are severely high. Particles >4 μ m are severely high. Particles >14 μ m are abnormally high. Particles >21 μ m are abnormally high. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



03 Apr 2019 Diag: Wes Davis

ISO



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 >4 μ m are severely high. Particles >6 μ m are abnormally high. Particles >14 μ m are notably high. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Phosphorus

Zinc

Sulfur

Lithium

ppm

ppm

ppm

ppm

ASTM D5185(m)

ASTM D5185(m)

ASTM D5185(m)

ASTM D5185(m) 5

437

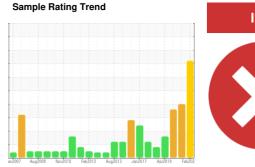
5000

Area 1623

1623-5522-6003 - RECLAIM CONVEYOR 2

Gearbox

PETRO CANADA ENDURATEX SYNTHETI





DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique.

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Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. The water content is negligible.

Fluid Condition

The AN level is acceptable for this fluid.

C EP 220 (100 LTR)							
SAMPLE INFOR	RMATIO	\ method	limit/base	current	history1	history2	
Sample Number		Client Info		PC0070737	PC	PC0022899	
Sample Date		Client Info		08 Feb 2024	30 Oct 2022	21 Dec 2020	
Machine Age	mths	Client Info		0	0	0	
Oil Age	mths	Client Info		0	0	0	
Oil Changed		Client Info		Not Changd	N/A	N/A	
Sample Status				SEVERE	SEVERE	SEVERE	
WEAR METAI	LS	method	limit/base	current	history1	history2	
PQ		ASTM D8184*		0	0	0	
Iron	ppm	ASTM D5185(m)	>200	52	35	28	
Chromium	ppm	ASTM D5185(m)	>15	<1	0	<1	
Nickel	ppm	ASTM D5185(m)	>15	3	5	2	
Titanium	ppm	ASTM D5185(m)		0	0	0	
Silver	ppm	ASTM D5185(m)		0	0	<1	
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1	
Lead	ppm	ASTM D5185(m)	>100	0	<1	0	
Copper	ppm	ASTM D5185(m)	>200	1	3	1	
Tin	ppm	ASTM D5185(m)	>25	0	0	0	
Antimony	ppm	ASTM D5185(m)	>5	0	<1	<1	
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)	33	27	21	17	
Barium	ppm	ASTM D5185(m)	5	3	0	0	
Molybdenum	ppm	ASTM D5185(m)		0	0	<1	
Manganese	ppm	ASTM D5185(m)		0	<1	<1	
Magnesium	ppm	ASTM D5185(m)	5	16	62	0	
Calcium	ppm	ASTM D5185(m)	5	3	1	2	

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	3	5	8
Sodium	ppm	ASTM D5185(m)		0	<1	1
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Water	%	ASTM D6304*	>0.2	0.012		
ppm Water	ppm	ASTM D6304*	>2000	125		
FLUID OLEANII	INIEGO	and a standard	15.00 10.00 00.00		for the second of	1-1-1

393

4903

5

4

327

6711

3

193

4049

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	346780	▲ 326416	▲ 338747
Particles >6µm	ASTM D7647	>5000	258649	174945	▲ 102898
Particles >14µm	ASTM D7647	>640	15205	<u> </u>	▲ 4623
Particles >21µm	ASTM D7647	>160	△ 520	173	<u></u> 658
Particles >38µm	ASTM D7647	>40	11	5	5
Particles >71µm	ASTM D7647	>10	1	0	0
Oil Cleanliness 13:58:05) Rev: 1	ISO 4406 (c)	>21/19/16		▲ 26/25/18 ation: Robert Fe	▲ 26/24/19 Itham - INCVOS



OIL ANALYSIS REPORT

