

PROBLEM SUMMARY

Sample Rating Trend

ISO



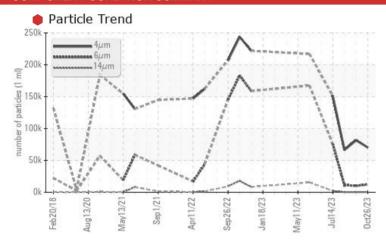
CURING Machine Id

AMFEL B43366 NE BLENDER CURING WEST

Component **Gearbox**

PETRO CANADA PURITY FG EP GEAR OIL 220 (--- GAL)

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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS									
Sample Status		SEVERE	ABNORMAL	SEVERE					
Particles >6µm	ASTM D7647 >	1300 12430	△ 9956	11230					
Particles >14μm	ASTM D7647 >	160 A 271	169	<u>^</u> 242					
Oil Cleanliness	ISO 4406 (c) >	/17/14 0 23/21/15	<u>△</u> 24/20/15	23/21/15					

Customer Id: ROCROCUS Sample No.: WC0856097 Lab Number: 05997950 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 ? Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type ? Information Required and micron rating with next sample. 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 Aug 2023 Diag: Don Baldridge

ISO



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. 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 condition of the oil is suitable for further service.



ISO



28 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



14 Jul 2023 Diag: Don Baldridge

ISO



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. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





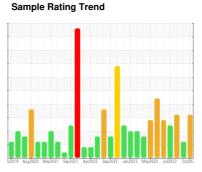
OIL ANALYSIS REPORT

CURING

AMFEL B43366 NE BLENDER CURING WEST

Gearbox

PETRO CANADA PURITY FG EP GEAR OIL 220 (--- GAL)





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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

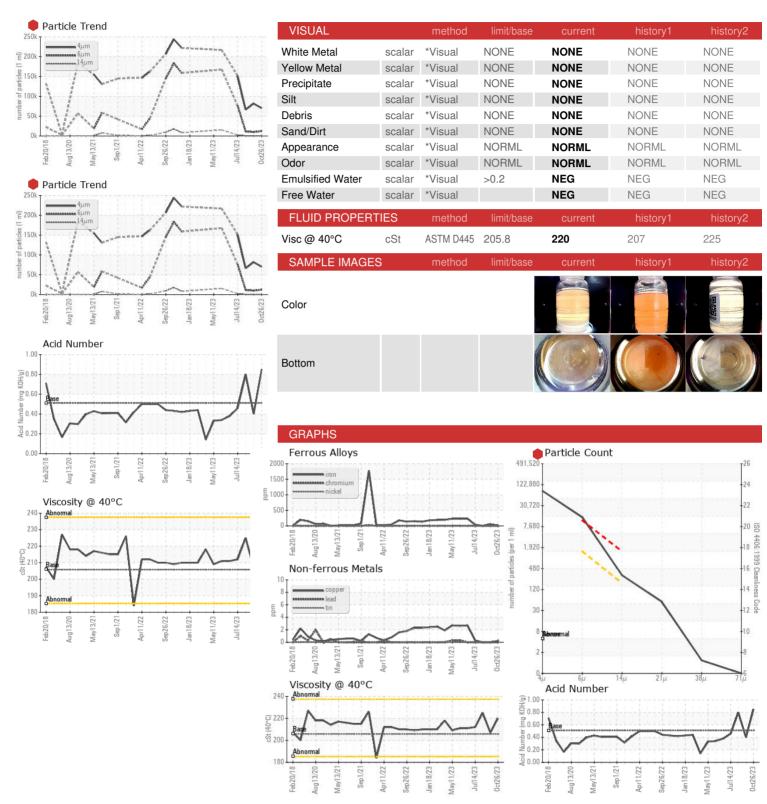
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

_ 220 (GAL)		b2018 Aug202	0 May2021 Sep2021 Apr20	022 Sep 2022 Jan 2023 May 2023 .	Jul2023 Oct207	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0856097	WC0842418	WC0842426
Sample Date		Client Info		26 Oct 2023	29 Aug 2023	28 Aug 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	Not Changd
Sample Status				SEVERE	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	9	51	4
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	<1
Lead	ppm	ASTM D5185m	>50	<1	0	0
Copper	ppm	ASTM D5185m	>200	0	0	0
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		5	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		1	0	0
Calcium	ppm	ASTM D5185m		3	2	<1
Phosphorus	ppm	ASTM D5185m		423	150	464
Zinc	ppm	ASTM D5185m		1	0	0
Sulfur	ppm	ASTM D5185m		1967	815	2484
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	25	6	26
Sodium	ppm	ASTM D5185m		0	2	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		70223	81576	66301
Particles >6µm		ASTM D7647		12430	<u> </u>	11230
Particles >14μm		ASTM D7647	>160	<u>^</u> 271	<u> </u>	<u>^</u> 242
Particles >21µm		ASTM D7647		47	26	28
Particles >38µm		ASTM D7647	>10	1	1	1
Particles >71μm		ASTM D7647		0	0	1
Oil Cleanliness		ISO 4406 (c)	>/17/14	23/21/15	<u>4</u> 24/20/15	23/21/15
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.51	0.85	0.40	0.80



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0856097 : 05997950

: 10726310

Diagnosed Diagnostician

Received

: 03 Nov 2023

: 06 Nov 2023

: Wes Davis

Test Package : IND 2 (Additional Tests: PrtCount) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Rochelle Foods - PRE

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Rochelle, IL US 61068

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