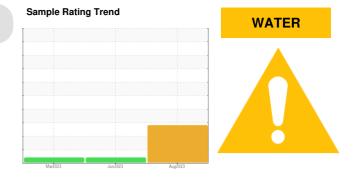


PROBLEM SUMMARY

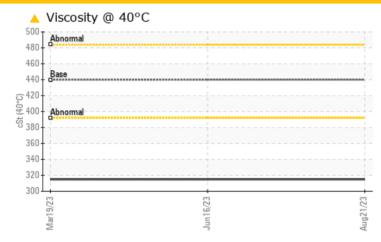
Area [97059] FREEZER #4 INTERNAL

Component Gearbox

PETRO CANADA PURITY FG SYNTH EP GEAR FLUID 460 (6 LTR)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS										
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL				
Appearance	scalar	Visual*	NORML	▲ WGOIL	NORML	NORML				
Free Water	scalar	Visual*		1 %	NEG	NEG				
Visc @ 40°C	cSt	ASTM D7279(m)	440	△ 315	△ 315	<u></u> 4 315				

Customer Id: GRA685CAM **Sample No.:** WC0850428 Lab Number: 02578250 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 Done By Description Action **Status Date** ? Water Drain-off We advise that you follow the water drain-off procedure for this component. Resample ? We recommend an early resample to monitor this condition. Information Required ? Please specify the component make and model with your next sample. **Check Water Access** ? We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

16 Jun 2023 Diag: Kevin Marson

VISCOSITY



Resample at the next service interval to monitor. Please specify the component make and model with your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



19 Mar 2023 Diag: Bill Quesnel

VISCOSITY



Resample at the next service interval to monitor. Please specify the component make and model with your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





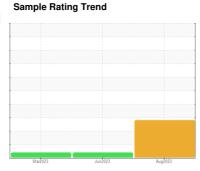
OIL ANALYSIS REPORT

Area [97059] FREEZER #4 INTERNAL

Component

Gearbox

PETRO CANADA PURITY FG SYNTH EP GEAR FLUID 460 (6 LTR)





DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

Free water present.

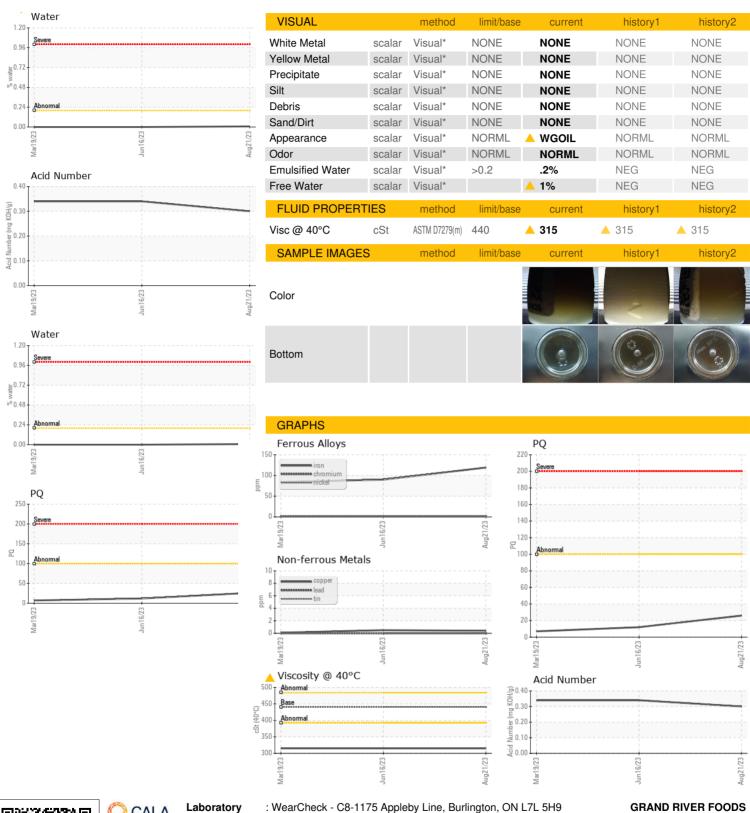
▲ Fluid Condition

Viscosity of sample indicates oil is within ISO 320 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.

AK FLUID 460 (o = 111,	Ma	2023	Jun2023 Aug20	23	
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0850428	WC0829244	WC0789502
Sample Date		Client Info		21 Aug 2023	16 Jun 2023	19 Mar 2023
Machine Age	days	Client Info		0	0	60
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		26	12	7
Iron	ppm	ASTM D5185(m)	>200	119	90	84
Chromium	ppm	ASTM D5185(m)	>10	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	0	<1	0
Titanium	ppm	ASTM D5185(m)		<1	0	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	4	3	3
Lead	ppm	ASTM D5185(m)	>50	0	0	0
Copper	ppm	ASTM D5185(m)	>200	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	<1	0	<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)	0	<1	1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		1	1	1
Magnesium	ppm	ASTM D5185(m)	0	2	1	1
Calcium	ppm	ASTM D5185(m)	0	5	4	2
Phosphorus	ppm	ASTM D5185(m)	600	481	485	495
Zinc	ppm	ASTM D5185(m)	0	54	48	43
Sulfur	ppm	ASTM D5185(m)	500	966	1302	894
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS)	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	11	8	9
Sodium	ppm	ASTM D5185(m)		3	2	2
Potassium	ppm	ASTM D5185(m)	>20	1	0	<1
Water	%	ASTM D6304*	>0.2	0.007		
ppm Water	ppm	ASTM D6304*	>2000	77.6		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.30	0.34	0.34



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WC0850428

: 02578250 : 5631310

Received Diagnosed Diagnostician : Kevin Marson

: 24 Aug 2023 : 29 Aug 2023

Test Package : IND 2 (Additional Tests: KF)

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

GRAND RIVER FOODS 190 VONDRAU DRIVE CAMBRIDGE, ON **CA N3E 1B8**

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T: (519)653-3577 F:

Contact/Location: Ryan Shea - GRA685CAM