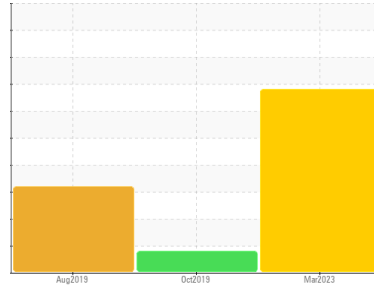
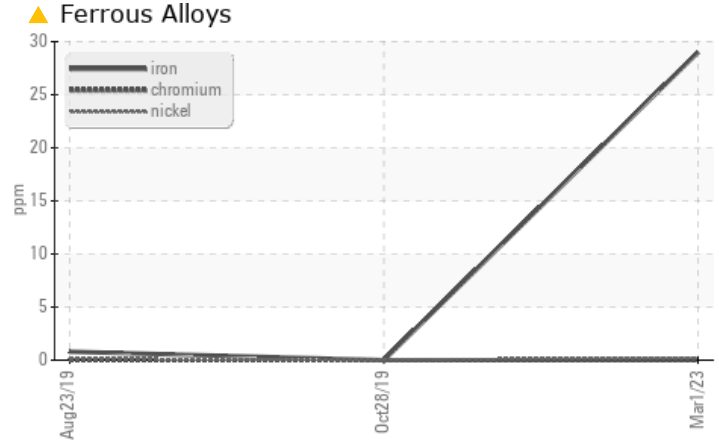
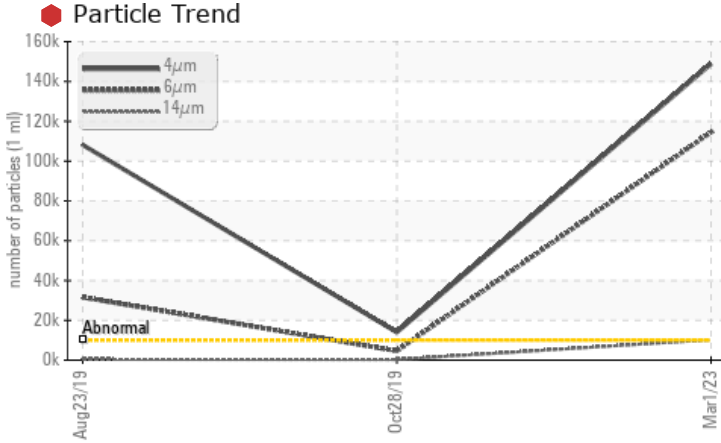




Area  
**ALIMENTOS PRO SALUD**  
Machine Id  
**FRICK COMPRESSOR 2**  
Component  
**Compressor**  
Fluid  
**PETRO CANADA REFLO 68A AMMONIA OIL (204 LTR)**



**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 there is a high level of varnish present in the oil. As a result we recommend that you contact us at 1-800-268-2131 and provide a purchase order for \$95 + HST in order to conduct MPC testing to determine the varnish levels of the oil ([https://youtu.be/AuXFoc2ks\\_I](https://youtu.be/AuXFoc2ks_I)).

**PROBLEMATIC TEST RESULTS**

Sample Status	ASTM	SEVERE	ATTENTION	SEVERE
Iron	ppm ASTM D5185(m) >50	▲ 29	0	<1
Particles >4µm	ASTM D7647 >10000	● 148840	▲ 14024	● 108134
Particles >6µm	ASTM D7647 >2500	● 114486	▲ 4616	● 31589
Particles >14µm	ASTM D7647 >320	● 10260	301	▲ 390
Particles >21µm	ASTM D7647 >80	▲ 210	79	50
Oil Cleanliness	ISO 4406 (c) >20/18/15	● 24/24/21	▲ 21/19/15	● 24/22/16

Customer Id: INDALA  
Sample No.: PC0070488  
Lab Number: 02545448  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Bill Quesnel CLS, OMA II, MLA-III, LLA-I +1  
(289)291-4641 x4641  
[Bill.Quesnel@wearcheck.com](mailto:Bill.Quesnel@wearcheck.com)

To change component or sample information:  
Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto: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.
Contact Required	---	---	?	We suspect that there is a high level of varnish present in the oil. As a result we recommend that you contact us at 1-800-268-2131 and provide a purchase order for \$95 + HST in order to conduct MPC testing to determine the varnish levels of the oil ( <a href="https://youtu.be/AuXFoc2ks_I">https://youtu.be/AuXFoc2ks_I</a> ).
Alert	---	---	?	We suspect that there is a high level of varnish present in the oil. As a result we recommend that you contact us at 1-800-268-2131 and provide a purchase order for \$95 + HST in order to conduct MPC testing to determine the varnish levels of the oil ( <a href="https://youtu.be/AuXFoc2ks_I">https://youtu.be/AuXFoc2ks_I</a> ).
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

### 28 Oct 2019 Diag: Wes Davis

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 23 Aug 2019 Diag: Wes Davis

ISO



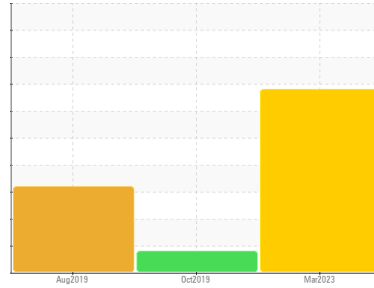
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. Particles >6µm are severely high. Particles >4µm are severely high. Particles >14µm are notably high. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Area  
**ALIMENTOS PRO SALUD**  
Machine Id  
**FRICK COMPRESSOR 2**

Component  
**Compressor**  
Fluid  
**PETRO CANADA REFLO 68A AMMONIA OIL (204 LTR)**



**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 there is a high level of varnish present in the oil. As a result we recommend that you contact us at 1-800-268-2131 and provide a purchase order for \$95 + HST in order to conduct MPC testing to determine the varnish levels of the oil ([https://youtu.be/AuXFoc2ks\\_l](https://youtu.be/AuXFoc2ks_l)).

**Wear**

Iron ppm levels are marginal. All other component wear rates are normal.

**Contamination**

Particles >14µm are severely high. Particles >6µm are severely high. Oil Cleanliness are severely high. Particles >4µm are severely high. Particles >21µm are abnormally high. The water content is negligible.

**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	history2
Sample Number	Client Info	<b>PC0070488</b>	PC0016117	PC0015871
Sample Date	Client Info	<b>01 Mar 2023</b>	28 Oct 2019	23 Aug 2019
Machine Age	hrs	<b>32127</b>	16623	15637
Oil Age	hrs	<b>0</b>	500	377
Oil Changed	Client Info	<b>N/A</b>	N/A	Not Changd
Sample Status		<b>SEVERE</b>	ATTENTION	SEVERE

**WEAR METALS**

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >50	<b>▲ 29</b>	0	<1
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >25	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m) >25	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m) >50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

**ADDITIVES**

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	0	<1
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m) 0	<b>0</b>	<1	<1
Phosphorus	ppm	ASTM D5185(m) 0	<b>0</b>	0	<1
Zinc	ppm	ASTM D5185(m) 0	<b>3</b>	<1	2
Sulfur	ppm	ASTM D5185(m) 0	<b>111</b>	134	130
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

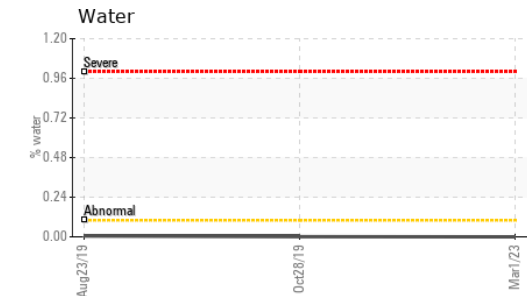
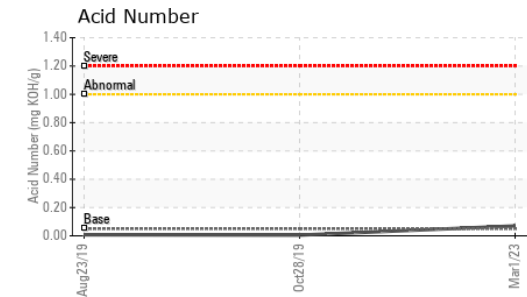
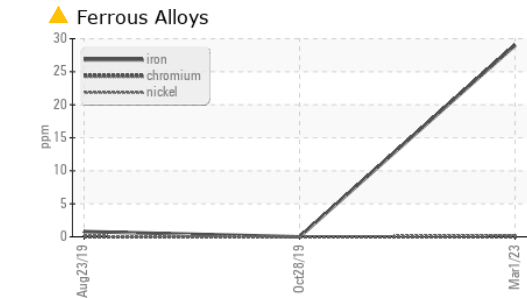
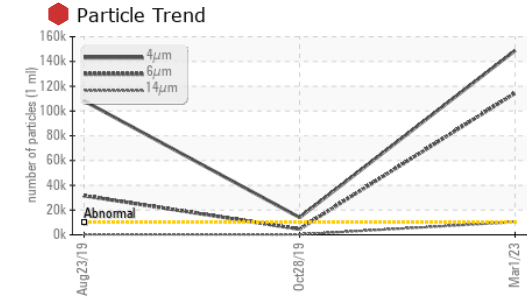
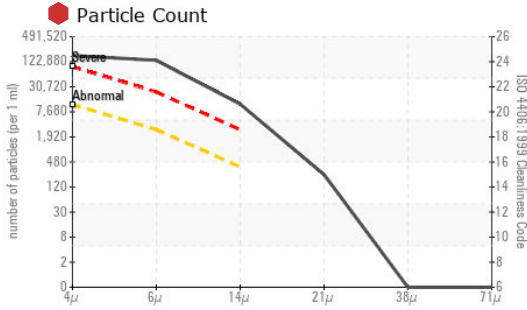
**CONTAMINANTS**

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >25	<b>2</b>	1	2
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	0
Water	%	ASTM D6304* >0.1	<b>0.00</b>	0.001	0.005
ppm Water	ppm	ASTM D6304* >1000	<b>0.00</b>	14.4	53.6

**FLUID CLEANLINESS**

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>148840</b>	▲ 14024	108134
Particles >6µm	ASTM D7647 >2500	<b>114486</b>	▲ 4616	31589
Particles >14µm	ASTM D7647 >320	<b>10260</b>	301	▲ 390
Particles >21µm	ASTM D7647 >80	<b>210</b>	79	50
Particles >38µm	ASTM D7647 >20	<b>0</b>	0	1
Particles >71µm	ASTM D7647 >4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>24/24/21</b>	▲ 21/19/15	24/22/16

# OIL ANALYSIS REPORT

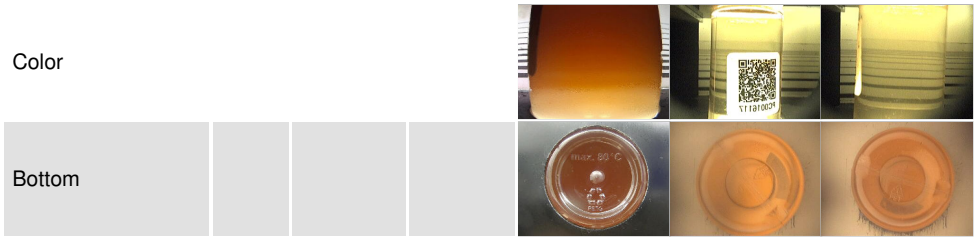


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.05	<b>0.07</b>	0.005	0.007

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	57.8	<b>57.1</b>	56.9	57.5
Visc @ 100°C	cSt	ASTM D7279(m)	7.86	<b>8.1</b>	7.8	8.0
Viscosity Index (VI)	Scale	ASTM D2270*	101	<b>109</b>	101	105

## SAMPLE IMAGES



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **INDUSTRIAS del PETROLEO CANAD. SA**  
**Sample No.** : PC0070488 **Received** : 15 Mar 2023 Contiguo FANAL, frente a la Autopista Bernardo Soto  
**Lab Number** : **02545448** **Diagnosed** : 21 Mar 2023 Grecia, A  
**Unique Number** : 5542453 **Diagnostician** : Bill Quesnel CR  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, VI )  
 Contact: Erick Bogantes  
 cotizaciones@lubricantescanada.com  
 T: 1(115)062-1598  
 F: 1(115)062-2870

*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.*