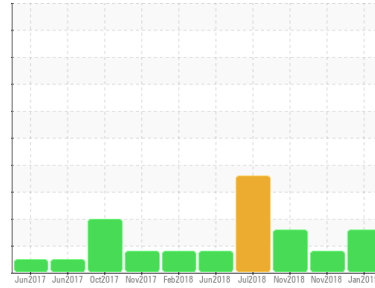




# PROBLEM SUMMARY

Sample Rating Trend



## VISCOSITY



Area  
**Turret [71123258]**  
 Machine Id  
**Turret Swivel #1 - 16" Production Grease Sample (NC-21604) (S/N Sample Tag: NC-21604)**  
 Component  
**Grease**  
 Fluid  
**PETRO CANADA MULTIPURPOSE EP 1 GREASE (--- GAL)**

### COMPONENT CONDITION SUMMARY

No relevant graphs to display

### RECOMMENDATION

We advise that you purge the grease and refill with new grease. We recommend an early resample to monitor this condition.

### PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	SEVERE
NLGI Consistency	NLGI Scale	SKF Method	1	4-5	4	5
PrtFilter						

Customer Id: CUSANY  
 Sample No.: WC1234567  
 Lab Number: 01234567  
 Test Package: GRS 1



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  
 (905)569-8600 x4641  
[Bill.Quesnel@wearcheck.com](mailto:Bill.Quesnel@wearcheck.com)

To change component or sample information:  
 Gloria Gonzalez +1 (905)569-8600 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

## HISTORICAL DIAGNOSIS

### 29 Nov 2018 Diag: Bill Quesnel

#### VISCOSITY



Confirm the source of the grease being utilized for servicing. Recommend purging and re-greasing. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the grease. The consistency is higher than typical (NLGI 4).

view report



### 03 Nov 2018 Diag: Bill Quesnel

#### VISCOSITY



We advise that you purge the grease and refill with new grease. We recommend an early resample to monitor this condition. All component wear rates are normal. There is no contamination in the grease. The grease consistency has increased from NLGI 1 to 5. The grease is no longer serviceable.

view report



### 17 Jul 2018 Diag: Bill Quesnel

#### VISCOSITY



We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We advise that you purge the grease and refill with new grease. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of water present in the grease. The grease consistency has increased from NLGI 1 to 5. The oil bleed has been reduced by greater than 50%. The grease is no longer serviceable.

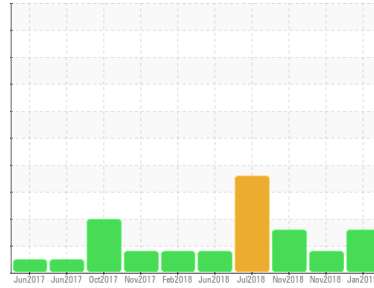
view report





# GREASE ANALYSIS

Sample Rating Trend



## VISCOSITY



Area  
**Turret [71123258]**  
 Machine Id  
**Turret Swivel #1 - 16" Production Grease Sample (NC-21604) (S/N Sample Tag: NC-21604)**  
 Component  
**Grease**  
 Fluid  
**PETRO CANADA MULTIPURPOSE EP 1 GREASE (--- GAL)**

### DIAGNOSIS

#### Recommendation

We advise that you purge the grease and refill with new grease. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Grease Condition

The grease consistency has increased from NLGI 1 to 4.5. The grease is no longer serviceable.

#### Contaminants

There is no contamination in the grease.

### SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			<b>PC</b>	PC	PC
Sample Date			<b>25 Jan 2019</b>	29 Nov 2018	03 Nov 2018
Machine Age	cyc		<b>0</b>	0	0
Grease Age	cyc		<b>0</b>	0	0
Grease Serviced			<b>N/A</b>	N/A	N/A
Sample Status			<b>SEVERE</b>	ABNORMAL	SEVERE

### WEAR METALS

	method	limit/base	current	history 1	history 2
PQ	In-house	>200	<b>54</b>	23	49
Iron	ppm	ASTM D5185 >250	<b>144</b>	88	125
Chromium	ppm	ASTM D5185 >10	<b>3</b>	2	2
Nickel	ppm	ASTM D5185 >5	<b>4</b>	3	4
Cadmium	ppm	ASTM D5185	<b>0</b>	0	0
Titanium	ppm	ASTM D5185	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185	<b>0</b>	0	0
Lead	ppm	ASTM D5185 >25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185 >75	<b>&lt;1</b>	0	0
Tin	ppm	ASTM D5185 >5	<b>0</b>	0	0
Silver	ppm	ASTM D5185 >5	<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185	<b>2</b>	2	2
Manganese	ppm	ASTM D5185	<b>2</b>	<1	1
Molybdenum	ppm	ASTM D5185	<b>4</b>	5	3
Phosphorus	ppm	ASTM D5185	<b>40</b>	41	41
Zinc	ppm	ASTM D5185	<b>32</b>	38	26
Antimony	ppm	ASTM D5185	<b>57</b>	111	45

### THICKENER/SOAP

	method	limit/base	current	history 1	history 2
Aluminum	ppm	ASTM D5185	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185	<b>6</b>	7	5
Calcium	ppm	ASTM D5185	<b>78</b>	82	57
Sodium	ppm	ASTM D5185	<b>7</b>	10	8
Lithium	ppm	ASTM D5185	<b>351</b>	357	366
Sulfur	ppm	ASTM D5185	<b>687</b>	711	644

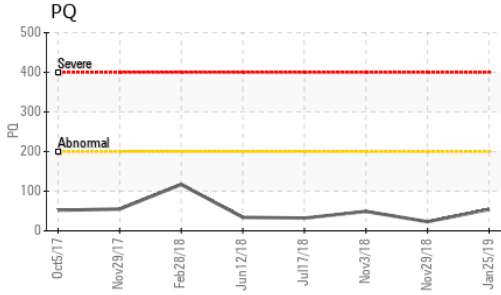
### CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185 >150	<b>2</b>	2	1
Potassium	ppm	ASTM D5185	<b>&lt;1</b>	<1	<1

### GREASE CONDITION

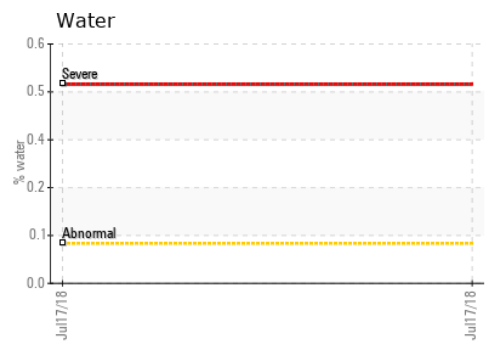
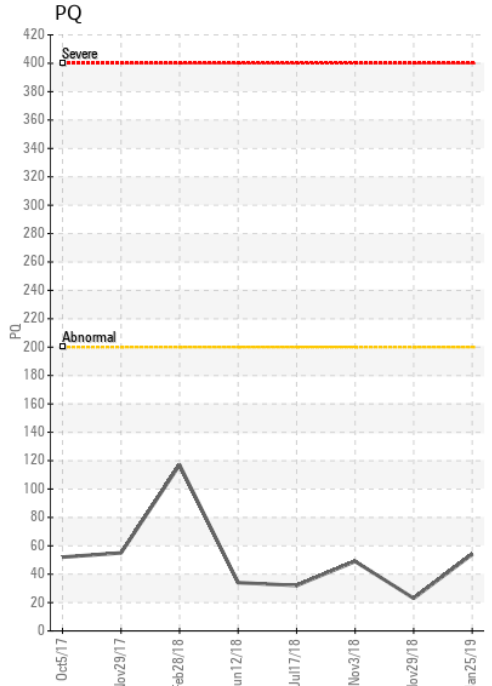
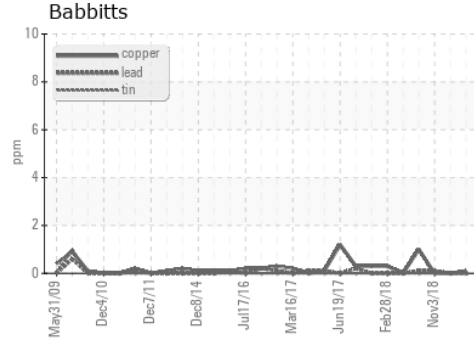
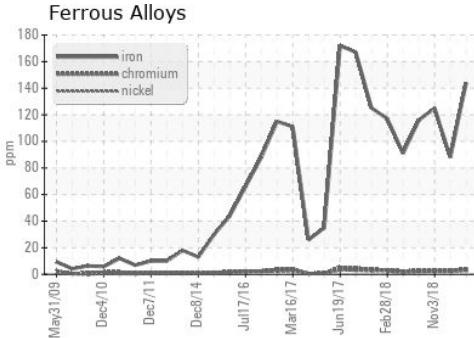
	method	limit/base	current	history 1	history 2
Grease Color	Visual	Brown	<b>Black</b>	Brown	Brown
Texture	In-house	Stringy	<b>Tacky</b>	Tacky	Tacky
NLGI Consistency	NLGI Scale	SKF Method 1	<b>4-5</b>	4	5

# GREASE ANALYSIS



SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color					
Bottom					
PrtFilter					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC1234567      **Received** : 04 Feb 2019  
**Lab Number** : 01234567      **Diagnosed** : 07 Feb 2019  
**Unique Number** : 12345678      **Diagnostician** : Bill Quesnel  
**Test Package** : GRS 1 ( Additional Tests: BottomAnalysis )

To discuss diagnosis or test data, contact Technical Support at 1-800-268-2131.  
 To change component or sample information, contact Customer Service at 1-800-268-2131.

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