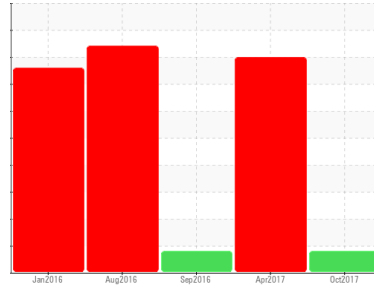




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**DEX [DEX-SAMPLES-43-17-9]**  
 Machine Id  
**A48E21 - B19 CRYSTALLIZER GEARBOX DRUM DRIVE**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA ENDURATEX MILD WG 680 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

Gear wear is indicated.

### Contamination

There is no indication of any contamination in the component.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WCI2324697</b>	WCI2305608	WCI2285138
Sample Date	Client Info		<b>18 Oct 2017</b>	04 Apr 2017	27 Sep 2016
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	SEVERE	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>▲ 390</b>	▲ 1378	▲ 258
Chromium	ppm	ASTM D5185m >15	<b>3</b>	12	2
Nickel	ppm	ASTM D5185m >15	<b>8</b>	▲ 28	5
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m >100	<b>2</b>	4	2
Copper	ppm	ASTM D5185m >200	<b>12</b>	36	12
Tin	ppm	ASTM D5185m >25	<b>2</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>3</b>	11	2
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	1	<1
Calcium	ppm	ASTM D5185m	<b>&lt;1</b>	3	1
Phosphorus	ppm	ASTM D5185m	<b>2</b>	8	0
Zinc	ppm	ASTM D5185m	<b>1</b>	2	<1
Sulfur	ppm	ASTM D5185m	<b>1379</b>	2196	1460

## CONTAMINANTS

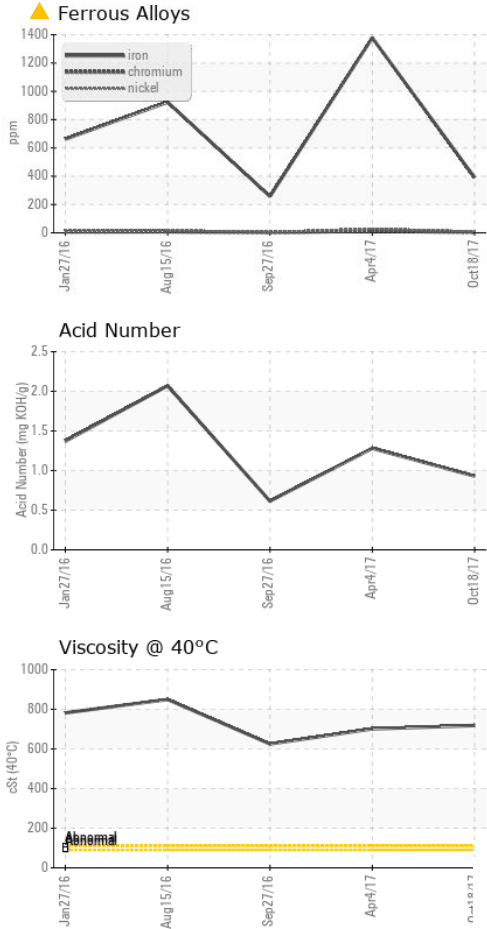
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>4</b>	9	7
Sodium	ppm	ASTM D5185m	<b>3</b>	5	5
Potassium	ppm	ASTM D5185m >20	<b>3</b>	16	6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.930</b>	1.28	0.615



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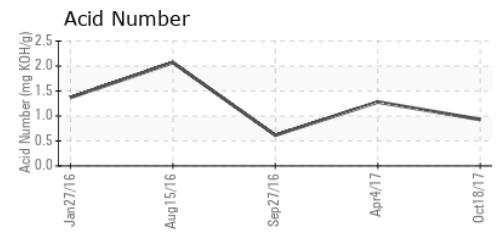
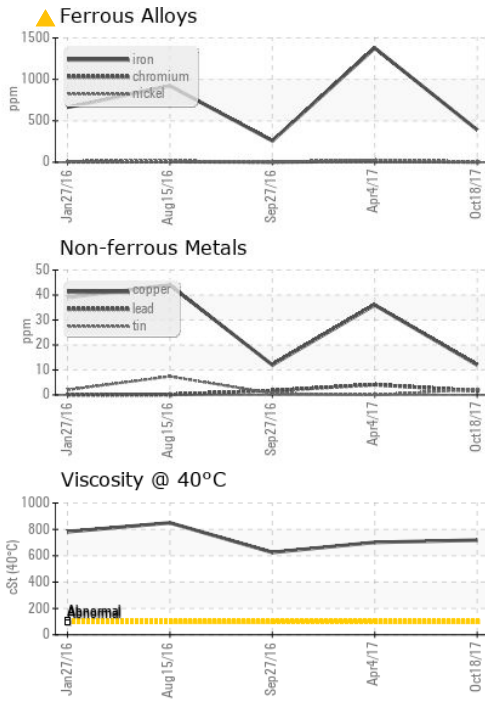


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>▲ MODER</b>	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>718.3</b>	701.3	625.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC12324697 **Received** : 10 Nov 2017  
**Lab Number** : 04345908 **Tested** : 15 Nov 2017  
**Unique Number** : 7999500 **Diagnosed** : 15 Nov 2017 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PQ )

**INGREDION - BEDFORD PARK**  
 6400 SOUTH ARCHER ROAD  
 BEDFORD PARK, IL  
 US 60501  
 Contact: Ricardo Gutierrez  
 Ricardo.Gutierrez@ingredion.com  
 T: (219)805-1307  
 F:

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)