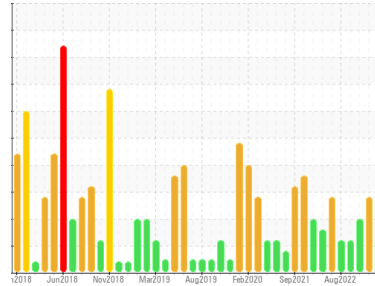




# PROBLEM SUMMARY

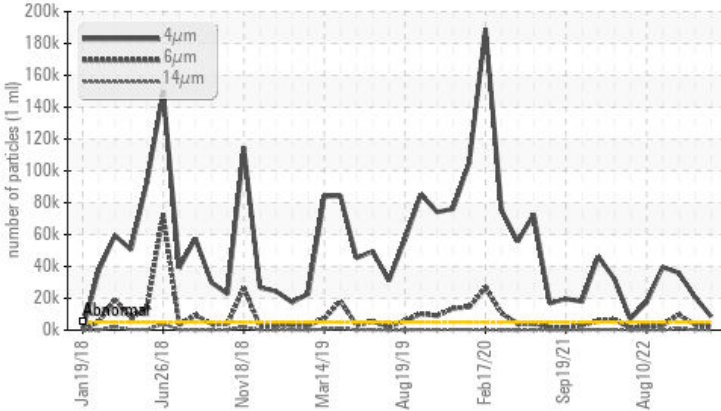
Area  
**BOF/OG SYSTEM**  
 Machine Id  
**D - O.G. Fan Lube System # 8**  
 Component  
**Lube System**  
 Fluid  
**PETRO CANADA HYDREX AW 100 (135 GAL)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ATTENTION</b>	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>5000	▲ <b>8655</b>	▲ 20853	▲ 36034
Particles >6µm	ASTM D7647	>1300	▲ <b>1986</b>	▲ 3577	▲ 9733
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ <b>20/18/14</b>	▲ 22/19/15	▲ 22/20/17

Customer Id: LEWBOSC  
 Sample No.: WC0782108  
 Lab Number: 02535489  
 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	MISSED	Mar 02 2023	?	We recommend you service the filters on this component.

## HISTORICAL DIAGNOSIS

### 13 Dec 2022 Diag: Kevin Marson

#### CONTAMINANT



We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >14µm are notably high. Particles >21µm are notably high. Free water present. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report



### 26 Oct 2022 Diag: Kevin Marson

#### ISO



We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >14µm are abnormally high. Particles >21µm are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report



### 13 Sep 2022 Diag: Kevin Marson

#### ISO



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles >4µm are abnormally high. Particles >6µm and oil cleanliness are abnormally high. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

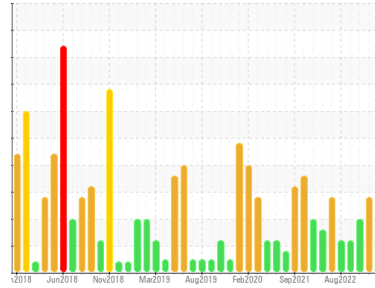
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**BOF/OG SYSTEM**  
 Machine Id  
**D - O.G. Fan Lube System # 8**  
 Component  
**Lube System**  
 Fluid  
**PETRO CANADA HYDREX AW 100 (135 GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

### 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>WC0782108</b>	WC0772144	WC0756732
Sample Date	Client Info		<b>24 Jan 2023</b>	13 Dec 2022	26 Oct 2022
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>ATTENTION</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*	>99999	<b>0</b>	0	0
Iron	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >20	<b>0</b>	<1	0
Lead	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Tin	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
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>	<1	<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) 0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 0	<b>2</b>	<1	0
Calcium	ppm	ASTM D5185(m) 50	<b>52</b>	50	52
Phosphorus	ppm	ASTM D5185(m) 330	<b>365</b>	353	362
Zinc	ppm	ASTM D5185(m) 430	<b>421</b>	414	422
Sulfur	ppm	ASTM D5185(m) 760	<b>2550</b>	2543	2577
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

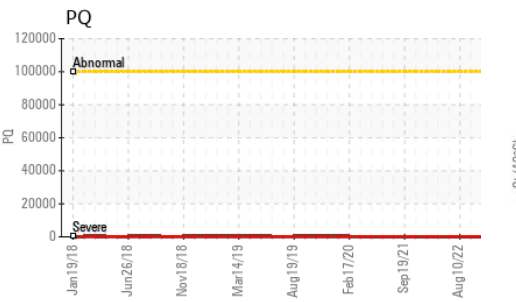
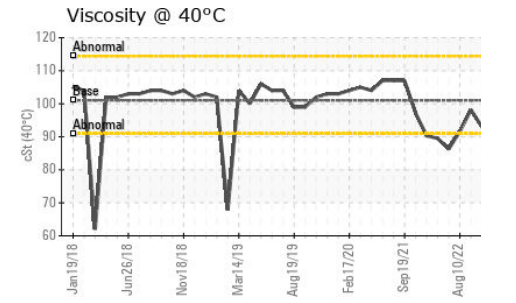
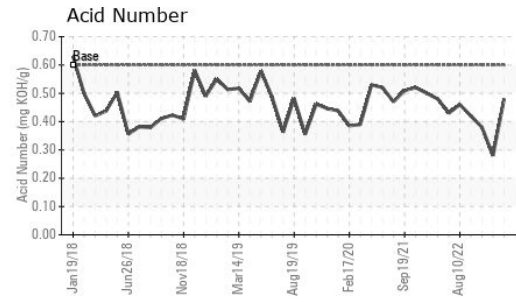
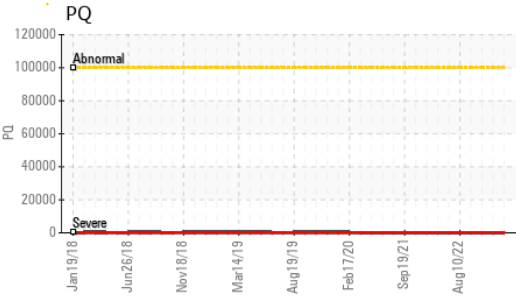
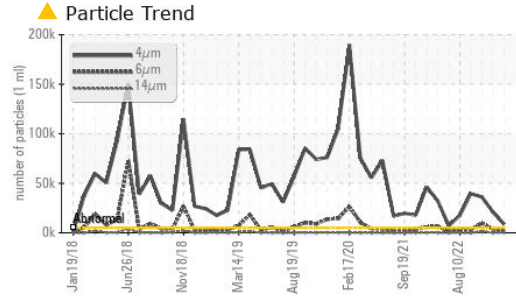
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>2</b>	2	2
Sodium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	0

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 8655</b>	▲ 20853	▲ 36034
Particles >6µm	ASTM D7647	>1300	<b>▲ 1986</b>	▲ 3577	▲ 9733
Particles >14µm	ASTM D7647	>160	<b>150</b>	▲ 240	▲ 1058
Particles >21µm	ASTM D7647	>40	<b>38</b>	▲ 60	▲ 294
Particles >38µm	ASTM D7647	>10	<b>1</b>	1	4
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 20/18/14</b>	▲ 22/19/15	▲ 22/20/17

# OIL ANALYSIS REPORT

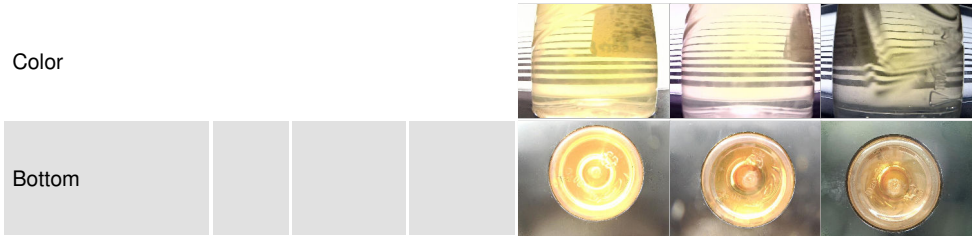


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	<b>0.48</b>	0.28	0.38

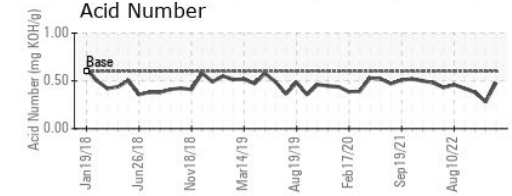
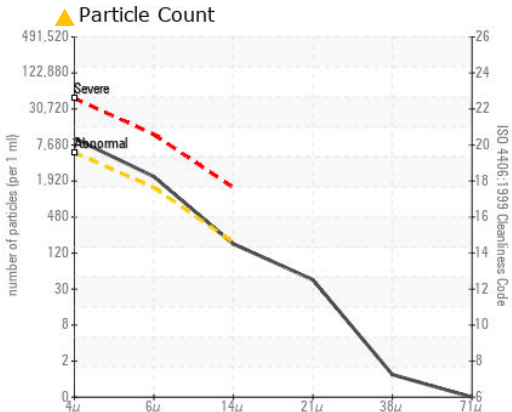
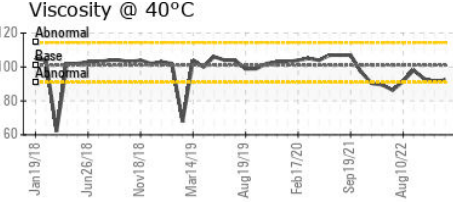
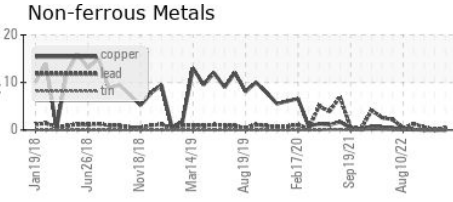
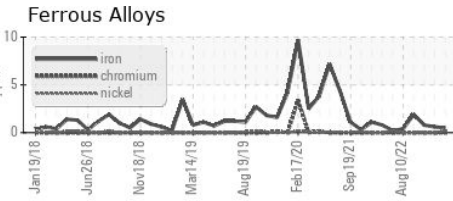
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	▲ WGOIL	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	<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)	101	<b>92.3</b>	91.5	93.0

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**  
**Sample No.** : WC0782108 **Received** : 25 Jan 2023 2330 Regional Road #3, Door: BOSC8  
**Lab Number** : 02535489 **Diagnosed** : 26 Jan 2023 NANTICOKE, ON  
**Unique Number** : 5516488 **Diagnostician** : Bill Quesnel CA N0A 1L0  
**Test Package** : IND 2 ( Additional Tests: PQ, TAN Man )  
 Contact: Tom Walden  
 Thomas.Walden@stelco.com

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.

T: (519)587-4541  
 F: (519)587-7702