

# **PROBLEM SUMMARY**

Sample Rating Trend





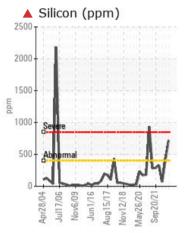


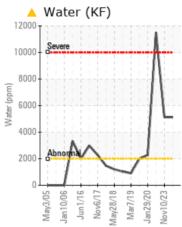
Machine Id **CATERPILLAR 336 F 8324 (S/N RKB00916)** 

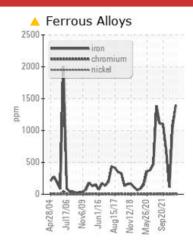
**Right Final Drive** 

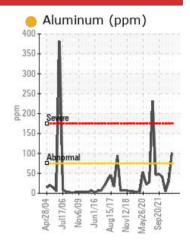
PETRO CANADA SYNGEAR E CD-50 (--- GAL)

### **COMPONENT CONDITION SUMMARY**









### **RECOMMENDATION**

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC T	EST RE	SULTS				
Sample Status				SEVERE	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>800	<b>1400</b>	<u>▲</u> 1061	113
Silicon	ppm	ASTM D5185m	>400	<b>1</b> 717	<b>4</b> 04	69
Water	%	ASTM D6304	>0.2	<b>△</b> 0.513	<b>△</b> 0.513	
ppm Water	ppm	ASTM D6304	>2000	<b>5130</b>	▲ 5130	

**Customer Id: TRANEW** Sample No.: WC0899140 Lab Number: 06203094 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Resample			?	We recommend an early resample to monitor this condition.	
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.	
Check Water Access			?	We advise that you check for the source of water entry.	

### HISTORICAL DIAGNOSIS

### 10 Nov 2023 Diag: Sean Felton

DIRT



We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.



### 14 Oct 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



### 01 Feb 2022 Diag: Don Baldridge

DIRT



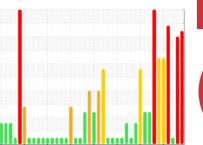
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The iron level has decreased, but is still abnormal. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.





# **OIL ANALYSIS REPORT**

# RT



Sample Rating Trend





CATERPILLAR 336 F 8324 (S/N RKB00916)

Right Final Drive

PETRO CANADA SYNGEAR E CD-50 (--- GAL)

### DIAGNOSIS

#### Recommendation

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### 🔔 Wear

Gear wear is indicated.

### ▲ Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil.

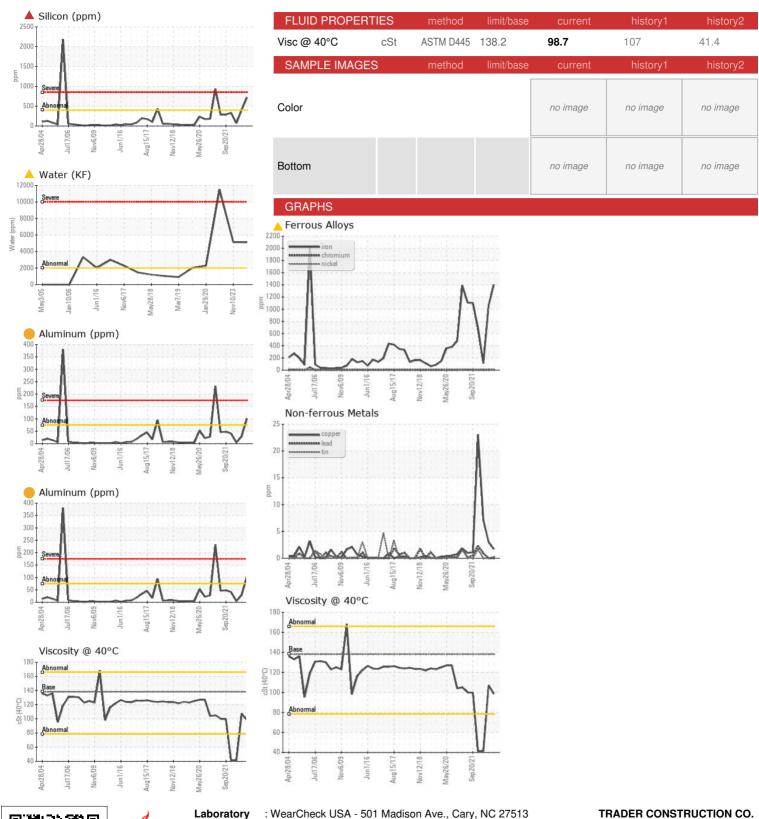
### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0899140	WC0863021	WC0734454
Sample Date		Client Info		30 May 2024	10 Nov 2023	14 Oct 2022
/lachine Age	hrs	Client Info		13715	13396	12613
Dil Age	hrs	Client Info		488	529	673
Dil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>800	<b>1400</b>	▲ 1061	113
Chromium	ppm	ASTM D5185m	>10	6	4	1
lickel	ppm	ASTM D5185m	>5	0	2	0
itanium	ppm	ASTM D5185m	>15	9	4	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Muminum	ppm	ASTM D5185m	>75	<u> </u>	<b>2</b> 9	4
.ead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	2	3	7
īn	ppm	ASTM D5185m	>8	<1	0	0
Antimony	ppm	ASTM D5185m	>50			
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		115	85	24
Barium	ppm	ASTM D5185m		0	0	0
Nolybdenum	ppm	ASTM D5185m		<1	<1	2
Manganese	ppm	ASTM D5185m		10	8	2
/lagnesium	ppm	ASTM D5185m		13	7	18
Calcium	ppm	ASTM D5185m		271	248	2922
Phosphorus	ppm	ASTM D5185m		425	896	846
Zinc	ppm	ASTM D5185m		86	142	1078
Bulfur	ppm	ASTM D5185m		<b>7041</b>	23155	7189
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	<b>▲</b> 717	<b>4</b> 04	69
Sodium	ppm	ASTM D5185m		10	2	2
Potassium	ppm	ASTM D5185m	>20	20	11	0
Vater	%	ASTM D6304	>0.2	<u> </u>	<b>△</b> 0.513	
pm Water	ppm	ASTM D6304	>2000	<u></u> 5130	▲ 5130	
VISUAL		method	limit/base	current	history1	history2
Vhite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
• •						
Odor	scalar	*Visual	NORML	NORML	NORML	NORML



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory

Sample No.

: WC0899140

Lab Number : 06203094 Unique Number : 11070555

Tested

Diagnosed Test Package : CONST ( Additional Tests: KF )

Received

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 07 Jun 2024

: 11 Jun 2024

: 11 Jun 2024 - Sean Felton

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.

TRADER CONSTRUCTION CO.

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Report Id: TRANEW [WUSCAR] 06203094 (Generated: 06/11/2024 16:24:15) Rev: 1

Contact/Location: MIKE WYATT - TRANEW