

## **OIL ANALYSIS REPORT**

## Sample Rating Trend

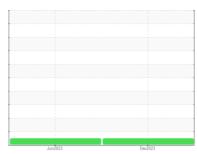
## NORMAL



# ORIN CONTRACTORS Machine Id 100-012

Component
Right Final Drive

PETRO CANADA TRAXON 80W90 (--- GAL)





#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Moor

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

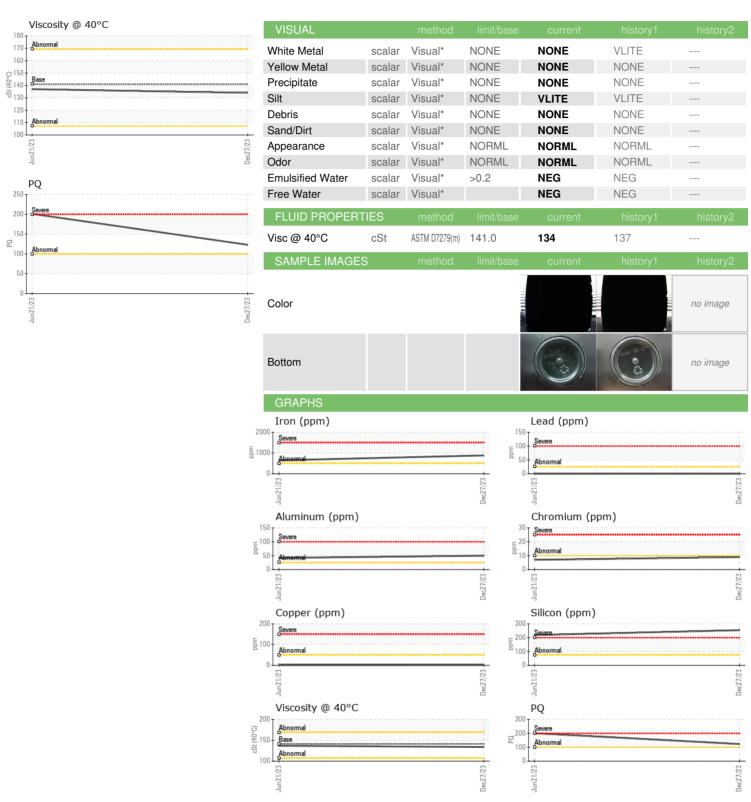
### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION   method   limit/base   current   history1   history2	(	GAL)	1	Jun2023	Dec2023		
Sample Date         Client Info         27 Dec 2023         21 Jun 2023            Machine Age         hrs         Client Info         0         3771            Oil Age         hrs         Client Info         0         0            Oil Changed         Client Info         Changed             Sample Status         NORMAL         NORMAL            CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.2         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history2           Wear METALS         method         limit/base         current         history1         history2           Water         WC Method         >0.2         NEG         NEG            WEAR METALS         method         limit/base         current         history2           Wear METALS         method         limit/base         current         history1         history2           PQ         ASTM D5185m         >50.0         883         646	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Date	Sample Number		Client Info		WC0888498	LH0261505	
Machine Age         hrs         Client Info         0         3771            Oil Age         hrs         Client Info         0         0            Oil Changed         Client Info         Changed         Changed            Sample Status         NORMAL         NORMAL            CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.2         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D6185m         >50.0         883         646            Iron         ppm         ASTM D6185m         >10         9         7            Nickel         ppm         ASTM D6185m         >10         <1			Client Info		27 Dec 2023	21 Jun 2023	
Oil Age         hrs         Client Info         0         0            Oil Changed         Client Info         Changed         Changed            Sample Status         NORMAL         NORMAL            CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.2         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D8184*         123         201            Iron         ppm         ASTM D8185m         >10         9         7            Nickel         ppm         ASTM D8185m         >10         9         7            Nickel         ppm         ASTM D8185m         >10         9         7            Silver         ppm         ASTM D8185m         >25         50         42            Silver         ppm         ASTM D8185m         >25         <1         0            Copper         ppm         ASTM D8185m <td></td> <td>hrs</td> <td>Client Info</td> <td></td> <td>0</td> <td>3771</td> <td></td>		hrs	Client Info		0	3771	
NORMAL   N		hrs	Client Info		0	0	
NORMAL   N	Oil Changed		Client Info		Changed	Changed	
Water         WC Method         >0.2         NEG         NEG					_	NORMAL	
Water         WC Method         >0.2         NEG         NEG	CONTAMINATIO	DNI	method	limit/hase	current	history1	history2
WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D8184*         123         201		<b>71 </b>				•	
PQ							history?
Chromium				IIIIIIVDase			
Chromium         ppm         ASTM D5185(m)         > 10         9         7            Nickel         ppm         ASTM D5185(m)         > 10         <1         <1            Titanium         ppm         ASTM D5185(m)         2         2            Silver         ppm         ASTM D5185(m)         > 25         50         42            Aluminum         ppm         ASTM D5185(m)         > 25         50         42            Lead         ppm         ASTM D5185(m)         > 25         50         42            Copper         ppm         ASTM D5185(m)         > 25         <1         0            Copper         ppm         ASTM D5185(m)         > 10         0         0            Antimony         ppm         ASTM D5185(m)         > 5         0         0            Vanadium         ppm         ASTM D5185(m)         0         0            Vanadium         ppm         ASTM D5185(m)         0         0            Beryllium         ppm         ASTM D5185(m)         0         0							
Nickel	-	ppm	( /				
Titanium			. ,				
Silver		ppm	. ,	>10			
Aluminum         ppm         ASTM D5185(m)         >25         50         42            Lead         ppm         ASTM D5185(m)         >25         <1	Titanium	ppm	ASTM D5185(m)				
Lead	Silver	ppm	ASTM D5185(m)		0		
Copper         ppm         ASTM D5185(m)         >50         1         1            Tin         ppm         ASTM D5185(m)         >10         0         0            Antimony         ppm         ASTM D5185(m)         >5         0         0            Vanadium         ppm         ASTM D5185(m)         0         0            Beryllium         ppm         ASTM D5185(m)         0         0            Cadmium         ppm         ASTM D5185(m)         0         0            Cadmium         ppm         ASTM D5185(m)         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         243         216         229            ADDITIVES         method         limit/base         current         history1         history2           Barium         ppm         ASTM D5185(m)         243         216         229            Molybdenum         ppm         ASTM D5185(m)         <1	Aluminum	ppm	ASTM D5185(m)	>25	50	42	
Tin	Lead	ppm	ASTM D5185(m)	>25	<1	0	
Antimony         ppm         ASTM D5185(m)         >5         0         0            Vanadium         ppm         ASTM D5185(m)         0         0            Beryllium         ppm         ASTM D5185(m)         0         0            Cadmium         ppm         ASTM D5185(m)         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         243         216         229            Barium         ppm         ASTM D5185(m)         1         0         <1            Barium         ppm         ASTM D5185(m)         1         0         <1            Molybdenum         ppm         ASTM D5185(m)         2         1         <1            Magnesium         ppm         ASTM D5185(m)         2         22         19            Calcium         ppm         ASTM D5185(m)         987         940         1026            Zinc         ppm         ASTM D5185(m)         21530         17336         17205	Copper	ppm	ASTM D5185(m)	>50	1	1	
Vanadium         ppm         ASTM D5185(m)         0         0            Beryllium         ppm         ASTM D5185(m)         0         0            Cadmium         ppm         ASTM D5185(m)         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         243         216         229            Barium         ppm         ASTM D5185(m)         1         0         <1	Tin	ppm	ASTM D5185(m)	>10	0	0	
Beryllium	Antimony	ppm	, ,	>5	0	0	
Cadmium         ppm         ASTM D5185(m)         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         243         216         229            Barium         ppm         ASTM D5185(m)         1         0         <1	Vanadium	ppm	ASTM D5185(m)		0	0	
ADDITIVES	Beryllium	ppm	ASTM D5185(m)		0	0	
Boron         ppm         ASTM D5185(m)         243         216         229            Barium         ppm         ASTM D5185(m)         1         0         <1	Cadmium	ppm	ASTM D5185(m)		0	0	
Barium         ppm         ASTM D5185(m)         1         0         <1            Molybdenum         ppm         ASTM D5185(m)         <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185(m)         <1         <1            Manganese         ppm         ASTM D5185(m)         6         5            Magnesium         ppm         ASTM D5185(m)         2         22         19            Calcium         ppm         ASTM D5185(m)         6         142         117            Phosphorus         ppm         ASTM D5185(m)         987         940         1026            Zinc         ppm         ASTM D5185(m)         1         6         8            Sulfur         ppm         ASTM D5185(m)         21530         17336         17205            Lithium         ppm         ASTM D5185(m)         <1         <1         <1            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >75         254         219            Sodium         ppm         ASTM D5185(m)         14         12	Boron	ppm	ASTM D5185(m)	243	216	229	
Manganese         ppm         ASTM D5185(m)         6         5            Magnesium         ppm         ASTM D5185(m)         2         22         19            Calcium         ppm         ASTM D5185(m)         6         142         117            Phosphorus         ppm         ASTM D5185(m)         987         940         1026            Zinc         ppm         ASTM D5185(m)         1         6         8            Sulfur         ppm         ASTM D5185(m)         21530         17336         17205            Lithium         ppm         ASTM D5185(m)         <1	Barium	ppm	ASTM D5185(m)	1	0		
Magnesium         ppm         ASTM D5185(m)         2         22         19            Calcium         ppm         ASTM D5185(m)         6         142         117            Phosphorus         ppm         ASTM D5185(m)         987         940         1026            Zinc         ppm         ASTM D5185(m)         1         6         8            Sulfur         ppm         ASTM D5185(m)         21530         17336         17205            Lithium         ppm         ASTM D5185(m)         < 1         <1             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >75         254         219            Sodium         ppm         ASTM D5185(m)         14         12	Molybdenum	ppm	ASTM D5185(m)		<1		
Calcium         ppm         ASTM D5185(m)         6         142         117            Phosphorus         ppm         ASTM D5185(m)         987         940         1026            Zinc         ppm         ASTM D5185(m)         1         6         8            Sulfur         ppm         ASTM D5185(m)         21530         17336         17205            Lithium         ppm         ASTM D5185(m)         <1	Manganese	ppm	ASTM D5185(m)		6	5	
Phosphorus         ppm         ASTM D5185(m)         987         940         1026            Zinc         ppm         ASTM D5185(m)         1         6         8            Sulfur         ppm         ASTM D5185(m)         21530         17336         17205            Lithium         ppm         ASTM D5185(m)         <1	Magnesium	ppm	ASTM D5185(m)	2	22	19	
Zinc         ppm         ASTM D5185(m)         1         6         8            Sulfur         ppm         ASTM D5185(m)         21530         17336         17205            Lithium         ppm         ASTM D5185(m)         <1	Calcium	ppm	ASTM D5185(m)	6	142	117	
Sulfur         ppm         ASTM D5185(m)         21530         17336         17205            Lithium         ppm         ASTM D5185(m)         <1         <1            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >75         254         219            Sodium         ppm         ASTM D5185(m)         14         12	Phosphorus	ppm	ASTM D5185(m)	987	940	1026	
Lithium         ppm         ASTM D5185(m)         <1         <1            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >75         254         219            Sodium         ppm         ASTM D5185(m)         14         12	Zinc	ppm	ASTM D5185(m)	1	6	8	
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >75         254         219            Sodium         ppm         ASTM D5185(m)         14         12	Sulfur	ppm	ASTM D5185(m)	21530	17336	17205	
Silicon         ppm         ASTM D5185(m)         >75         254         219            Sodium         ppm         ASTM D5185(m)         14         12	Lithium	ppm	ASTM D5185(m)		<1	<1	
Sodium         ppm         ASTM D5185(m)         14         12	CONTAMINANT	S	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D5185(m)         14         12	Silicon	ppm	ASTM D5185(m)	>75	254	219	
	Sodium		ASTM D5185(m)		14	12	
	Potassium	ppm	. ,	>20	18	15	



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

: 5708345

: WC0888498

Recieved : 02607259

Diagnosed Diagnostician : Kevin Marson

: 08 Jan 2024 : 09 Jan 2024

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 RONI/IRON SHORE EXCAVATING LTD. 100 MACINTOSH BLVD VAUGHAN, ON CA L4K 4P3

Test Package : MOBCE ( Additional Tests: PQ, Visual )

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.

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Contact: Service Team service.team@roni.ca T:

F: