

PROBLEM SUMMARY

ORIN CONTRACTORS

180

Component

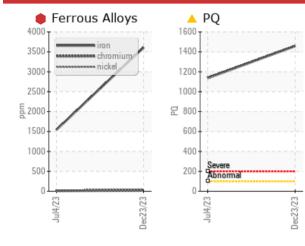
Left Final Drive

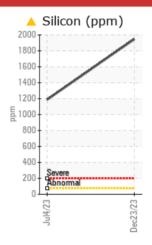
PETRO CANADA TRAXON 80W90 (--- GAL)

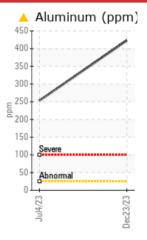
Sample Rating Trend

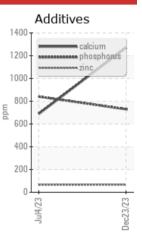


COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ABNORMAL				
PQ		ASTM D8184*		1458	<u>▲</u> 1136				
Iron	ppm	ASTM D5185(m)	>500	3610	<u>▲</u> 1543				
Chromium	ppm	ASTM D5185(m)	>10	32	1 3				
Titanium	ppm	ASTM D5185(m)		^ 26	<u> </u>				
Silicon	ppm	ASTM D5185(m)	>75	1947	<u>▲</u> 1188				

Customer Id: RONVAU Sample No.: WC0888452 Lab Number: 02607214 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@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 Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.			

HISTORICAL DIAGNOSIS

WEAR

04 Jul 2023 Diag: Kevin Marson



We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.PQ levels are abnormal. Chromium and iron and titanium ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible. High amount of ingressed dirt has caused abrasive wear to the component. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





OIL ANALYSIS REPORT

OIL ANALYSIS REPORT

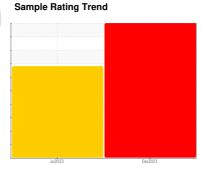
ORIN CONTRACTORS

180

Component

Left Final Drive

PETRO CANADA TRAXON 80W90 (--- GAL)





DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

Chromium and iron ppm levels are severe. PQ levels are abnormal. Titanium ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

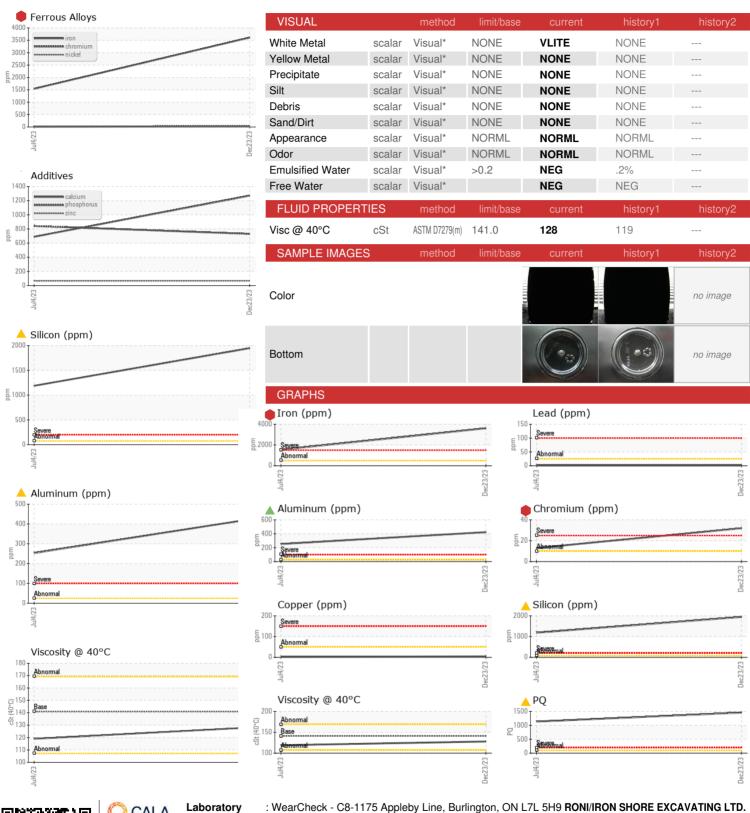
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

,			Jul2023	Dec2023	,	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888452	LH0270758	
Sample Date		Client Info		23 Dec 2023	04 Jul 2023	
Machine Age	hrs	Client Info		0	4820	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				SEVERE	ABNORMAL	
CONTAMINATIO)N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		<u> 1458</u>	▲ 1136	
Iron	ppm	ASTM D5185(m)	>500	3610	▲ 1543	
Chromium	ppm	ASTM D5185(m)	>10	32	▲ 13	
Nickel	ppm	ASTM D5185(m)		8	2	
Titanium	ppm	ASTM D5185(m)	, , ,	<u>^</u> 26	<u> </u>	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>25	423	▲ 253	
Lead	ppm	ASTM D5185(m)	>25	1	<1	
Copper	ppm	ASTM D5185(m)	>50	4	3	
Tin	ppm	ASTM D5185(m)		0	0	
Antimony	ppm	ASTM D5185(m)	>5	0	0	
Vanadium	ppm	ASTM D5185(m)		<1	<1	
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	127	89	
Barium	ppm	ASTM D5185(m)	1	<1	3	
Molybdenum	ppm	ASTM D5185(m)		<1	<1	
Manganese	ppm	ASTM D5185(m)		29	13	
Magnesium	ppm	ASTM D5185(m)	2	187	109	
Calcium	ppm	ASTM D5185(m)	6	1270	689	
Phosphorus	ppm	ASTM D5185(m)	987	730	841	
Zinc	ppm	ASTM D5185(m)	1	66	65	
Sulfur	ppm	ASTM D5185(m)	21530	19997	15281	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANT	S _	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	<u> </u>	<u></u> 1188	
Sodium	ppm	ASTM D5185(m)		103	60	
Potassium	ppm	ASTM D5185(m)	>20	151	95	



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

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

: WC0888452

: 02607214 : 5708300

Recieved : 08 Jan 2024 Diagnosed

: 09 Jan 2024 Diagnostician : Kevin Marson Test Package : MOBCE (Additional Tests: PQ, Visual)

100 MACINTOSH BLVD VAUGHAN, ON CA L4K 4P3

Contact: Service Team service.team@roni.ca

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.

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