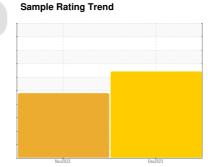


OIL ANALYSIS REPORT



Front Right Wheel Hub

PETRO CANADA TRAXON 80W90 (4 LTR)





DIAGNOSIS

Recommendation

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.

Wear

Chromium and copper, iron, lead and tin ppm levels are abnormal. Aluminum ppm levels are. Gear wear is indicated. Bearing and/or bushing wear is indicated.

Contamination

There is a moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component.

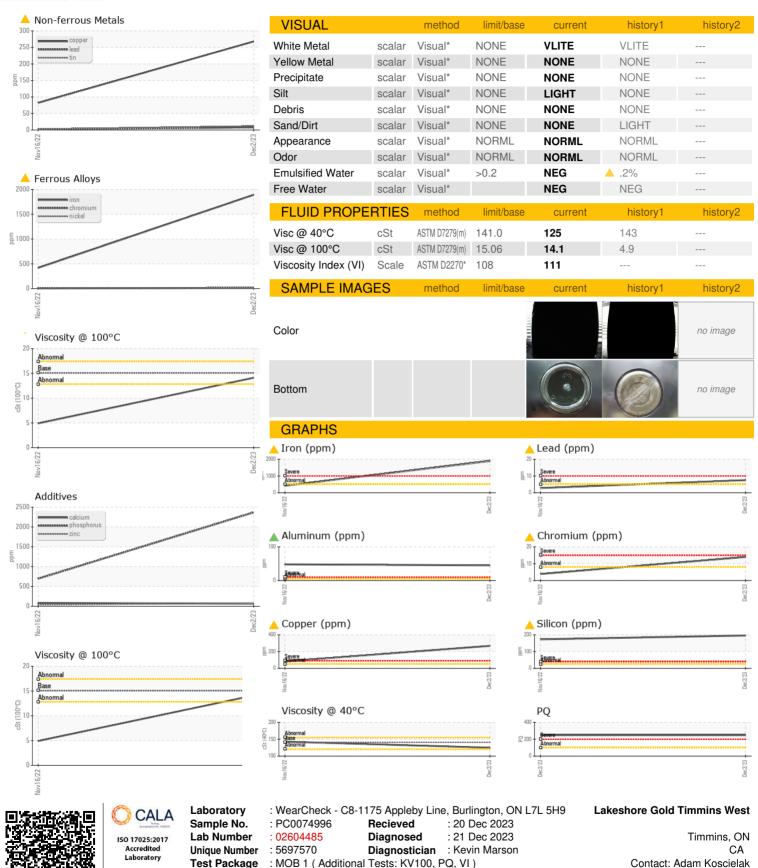
Fluid Condition

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.

			NovZUZZ	Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0074996	PC0051056	
Sample Date		Client Info		02 Dec 2023	16 Nov 2022	
Machine Age	hrs	Client Info		7269	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		250		
Iron	ppm	ASTM D5185(m)	>500	<u> </u>	417	
Chromium	ppm	ASTM D5185(m)	>8	<u>▲</u> 14	4	
Nickel	ppm	ASTM D5185(m)	>5	4	2	
Titanium	ppm	ASTM D5185(m)		2	4	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>5	45	48	
Lead	ppm	ASTM D5185(m)	>5	_ 8	3	
Copper	ppm	ASTM D5185(m)	>50	<u>^</u> 268	▲ 82	
Tin	ppm	ASTM D5185(m)		<u> </u>	3	
Antimony	ppm	ASTM D5185(m)	>5	0	<1	
Vanadium	ppm	ASTM D5185(m)		0	<1	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	ourront.	hiotonyl	hiotory?
				current	history1	history2
Boron	ppm	ASTM D5185(m)	243	157	33	
Barium	ppm	ASTM D5185(m)	1	0	1	
Molybdenum	ppm	ASTM D5185(m)		0	<1	
Manganese	ppm	ASTM D5185(m)		18	6	
Magnesium	ppm	ASTM D5185(m)	2	12	23	
Calcium	ppm	ASTM D5185(m)	6	61	86	
Phosphorus	ppm	ASTM D5185(m)	987	2367	694	
Zinc	ppm	(/	1	77	37	
Sulfur	ppm	ASTM D5185(m)	21530	15609	22887	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	196	▲ 173	
Sodium	ppm	ASTM D5185(m)		25	24	
Potassium	ppm	ASTM D5185(m)	>20	24	22	



OIL ANALYSIS REPORT



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.

adam.koscielak@HFSinclair.com

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