

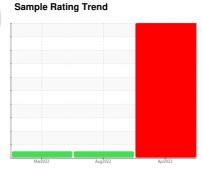
OIL ANALYSIS REPORT



Front Left Wheel Hub

PETRO CANADA TRAXON 80W90 (4 LTR)

Magaadium





DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. 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

PQ levels are abnormal. Copper and lead and iron ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. Bearing and/or bushing wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

Contamination

There is a high concentration of water present in the oil. 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.

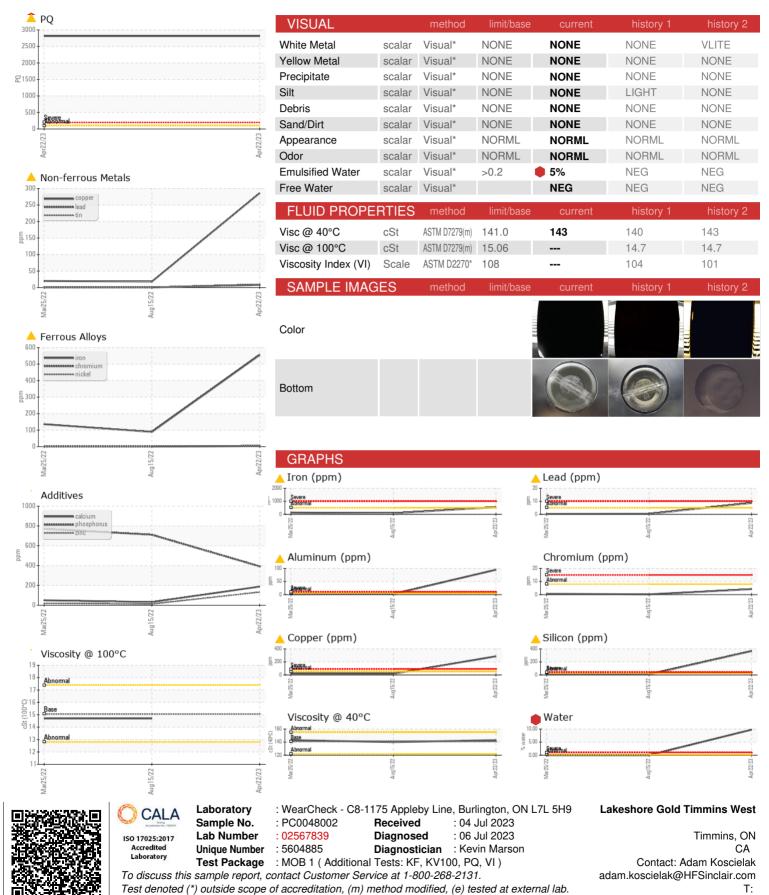
XON 80W90 (4	LTR)	M	m2022	Aug2022 Apr2	023	
SAMPLE INFOR	RMATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PC0048002	PC0048514	PC0046593
Sample Date		Client Info		22 Apr 2023	15 Aug 2022	25 Mar 2022
Machine Age	hrs	Client Info		5260	3697	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				SEVERE	NORMAL	NORMAL
WEAR META	LS	method	limit/base	current	history 1	history 2
PQ		ASTM D8184*		2814		
Iron	ppm	ASTM D5185(m)	>500	<u> 555</u>	89	136
Chromium	ppm	ASTM D5185(m)	>8	4	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	2	<1	<1
Titanium	ppm	ASTM D5185(m)		9	<1	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>5	<u> </u>	2	1
Lead	ppm	ASTM D5185(m)	>5	<u>^</u> 9	<1	<1
Copper	ppm	ASTM D5185(m)	>50	286	18	20
Tin	ppm	ASTM D5185(m)		7	<1	<1
Antimony	ppm	ASTM D5185(m)	>5	0	<1	0
Vanadium	ppm	ASTM D5185(m)		<1	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)	243	5	41	41
Barium	ppm	ASTM D5185(m)	1	4	0	0
Molybdenum	ppm	ASTM D5185(m)		0	<1	<1
Manganese	ppm	ASTM D5185(m)		14	1	2
		LOTIL DELOS:				4

Magnesium	ppm	(III)CQ1CQ IN1 CH	2	39	3	
Calcium	ppm	ASTM D5185(m)	6	188	32	50
Phosphorus	ppm	ASTM D5185(m)	987	392	711	771
Zinc	ppm	ASTM D5185(m)	1	132	12	19
Sulfur	ppm	ASTM D5185(m)	21530	21880	22945	23918
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
	TS ppm	method ASTM D5185(m)	limit/base >25	current	history 1	history 2
CONTAMINAN					,	,
CONTAMINAN Silicon	ppm	ASTM D5185(m)		▲ 367	8	,
CONTAMINAN Silicon Sodium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>25	▲ 367 37	8	,

ACTM DE10E(m) O



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Validity of results and interpretation are based on the sample and information as supplied.

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