WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL SEVERE ABNORMAL**

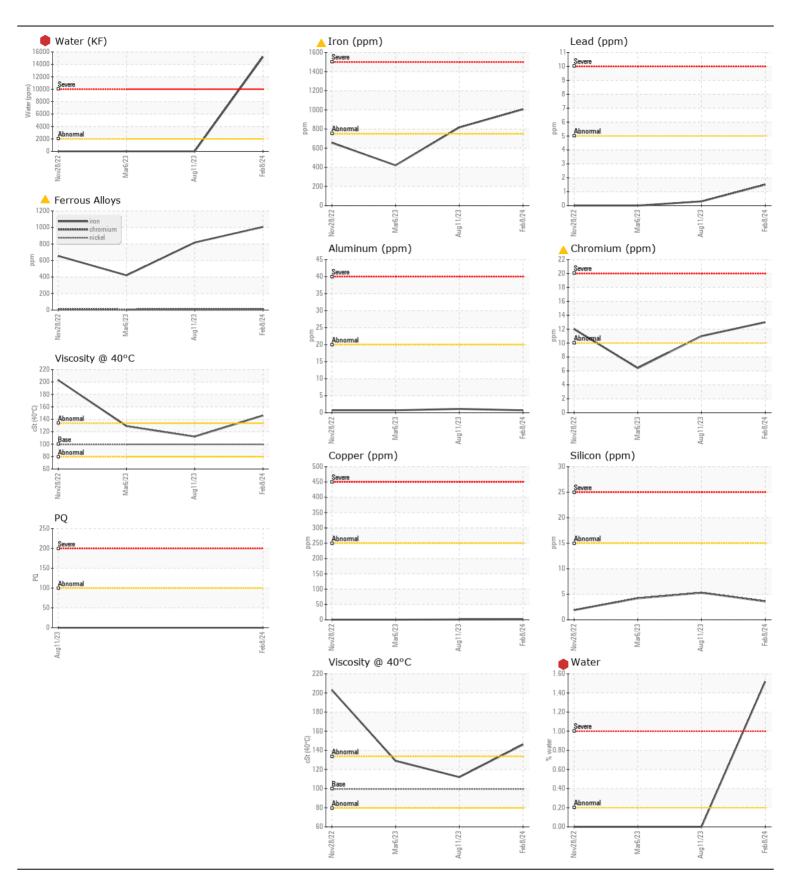


Area (366409)

LIEBHERR R945 053994-1866

Swing Drive

PETRO CANADA TRAXON 75V	/90 SYNTH	ETIC	(GAL)			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		LH0285025	LH0237707	LH0237749
	Sample Date		Client Info		08 Feb 2024	11 Aug 2023	06 Mar 2023
	Machine Age	hrs	Client Info		4053	3069	2125
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		None	None	None
	Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR	PQ		ASTM D8184*		0	0	
	Iron	ppm	ASTM D5185(m)	>750	<u> 1006</u>	<u></u> 817	420
Chromium and iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.	Chromium	ppm	ASTM D5185(m)	>10	1 3	<u> 11</u>	6
	Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
	Titanium	ppm	ASTM D5185(m)		0	<1	<1
	Silver	ppm	ASTM D5185(m)		0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>20	<1	1	<1
	Lead	ppm	ASTM D5185(m)	>5	2	<1	0
	Copper	ppm	ASTM D5185(m)	>250	1	<1	<1
	Tin	ppm	ASTM D5185(m)	>10	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	<1	0
	White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>15	4	5	4
There is a high concentration of water present in the oil.	Potassium	ppm		>20	2	1	1
	Water	%	ASTM D6304*	>0.2	1.519		
	ppm Water	ppm	ASTM D6304*	>2000	15199		
	Silt	scalar	Visual*	NONE	NONE	VLITE	NONE
	Debris	scalar	Visual*	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
	Appearance	scalar	Visual*	NORML	NORML	▲ WGOIL	NORML
	Odor	scalar	Visual*	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	Visual*	>0.2	<u> </u>	<u> </u>	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2	1	2
The white residue present in the sample is oil additive precipitate. The	Boron	ppm	ASTM D5185(m)	328	126	129	183
oil is no longer serviceable as a result of the abnormal and/or severe wear.	Barium	ppm	ASTM D5185(m)	1	0	1	2
	Molybdenum	ppm	ASTM D5185(m)		0	<1	<1
	Manganese	ppm	ASTM D5185(m)		8	7	5
	Magnesium	ppm	ASTM D5185(m)	1	1	2	<1
	Calcium	ppm	ASTM D5185(m)	7	11	16	6
	Phosphorus	ppm	ASTM D5185(m)	1145	1841	1390	1432
	Zinc	ppm	ASTM D5185(m)	3	13	16	11
	Sulfur	ppm	ASTM D5185(m)	17909	24921	21857	22226
				99.6	146	112	129





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0285025 Lab Number : 02617476

Unique Number : 5734586

Received **Tested** Diagnosed : 22 Feb 2024

: 23 Feb 2024

: 23 Feb 2024 - Kevin Marson Test Package : MOB 1 (Additional Tests: Bottom, KF, PQ) 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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