WEAR
CONTAMINATION
FLUID CONDITION

Method

ABNORMAL ABNORMAL NORMAL

History1

Historv2



(336303)

LIEBHERR R938 050385-1650

Left Final Drive

PETRO CANADA TRAXON SYNTHETIC 75W90 (12 LTR)

Test

RECOMMENDA	ATION	
We advise that you che		
We recommend that yo not already been done.		
utilized for top-up/fill. W	e recommend	l an early resa

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Sample Number		Client Info		LH0182162	LH0238480	
Sample Date		Client Info		02 Oct 2023	03 Oct 2022	
Machine Age	hrs	Client Info		1892	1274	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Changed	
Filter Changed		Client Info		Not Changd	N/A	
Sample Status				ABNORMAL	NORMAL	
PQ		ASTM D8184*		914		

Limit/Abn Current

WEAR

condition.

Chromium and iron ppm levels are abnormal. Aluminum ppm levels are noted. Titanium ppm levels are marginal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Iron	ppm	ASTM D5185(m)	>500	<u> </u>	118	
Chromium	ppm	ASTM D5185(m)	>10	4 0	2	
Nickel	ppm	ASTM D5185(m)	>10	2	<1	
Titanium	ppm	ASTM D5185(m)		<u> </u>	<1	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>25	183	8	
Lead	ppm	ASTM D5185(m)	>25	0	0	
Copper	ppm	ASTM D5185(m)	>50	2	<1	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	

CONTAMINATION

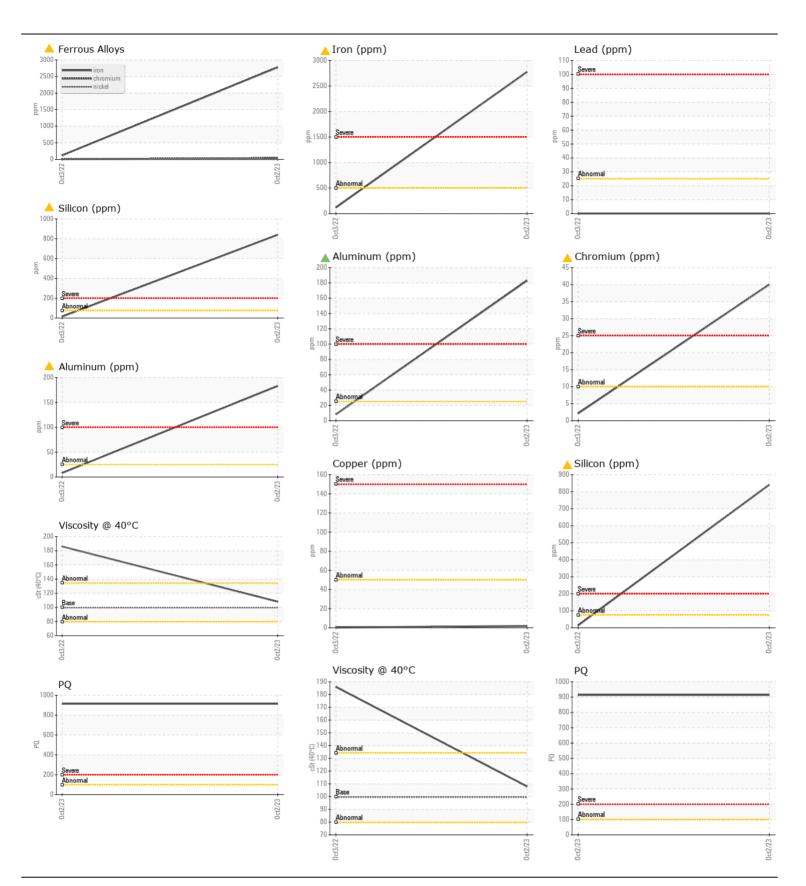
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

Silicon	ppm	ASTM D5185(m)	>75	<u> </u>	14	
Potassium	ppm	ASTM D5185(m)	>20	39	4	
Water		WC Method	>0.2	NEG	NEG	
Silt	scalar	Visual*	NONE	NONE	LIGHT	
Debris	scalar	Visual*	NONE	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
Codium	nnm	ACTM DE10E(m)		00	Λ	

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.

Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185(m)		22	4	
Boron	ppm	ASTM D5185(m)	328	120	4	
Barium	ppm	ASTM D5185(m)	1	10	16	
Molybdenum	ppm	ASTM D5185(m)		1	<1	
Manganese	ppm	ASTM D5185(m)		29	3	
Magnesium	ppm	ASTM D5185(m)	1	21	3	
Calcium	ppm	ASTM D5185(m)	7	27	14	
Phosphorus	ppm	ASTM D5185(m)	1145	1027	1573	
Zinc	ppm	ASTM D5185(m)	3	35	18	
Sulfur	ppm	ASTM D5185(m)	17909	20560	25985	
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	108	186	





CALA ISO 17025:2017 Accredited Laboratory

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 E. CUMMINGS CONTRACTING INC. : LH0182162

Recieved : 02606602 Diagnosed : 5707688

: 04 Jan 2024 : 05 Jan 2024 Diagnostician : Kevin Marson

CA E7M 2G1 Contact: Service Manager

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

T: (506)328-2974

852 MAIN STREET

WOODSTOCK, NB

F: