**WEAR CONTAMINATION FLUID CONDITION** 

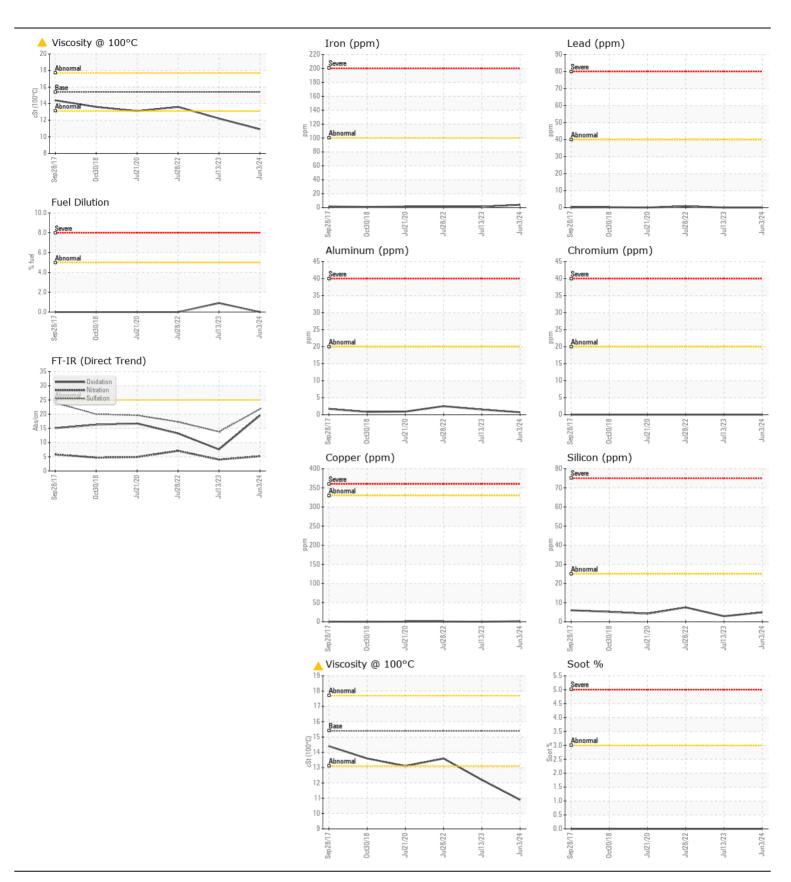
**NORMAL NORMAL ABNORMAL** 

## YORK REGION

## 240 ORCHARD HEIGHTS AURORA YORK REGION YORK REGION

**Right Diesel Engine** 

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PN0005176	PN0004901	PN000384
	Sample Date		Client Info		03 Jun 2024	13 Jul 2023	28 Jul 202
	Machine Age	hrs	Client Info		172	155	151
	Oil Age	hrs	Client Info		0	4	0
	Filter Age	hrs	Client Info		0	4	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>100	4	1	1
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)		0	0	0
	Nickel	ppm	ASTM D5185(m)		0	0	0
	Titanium	ppm	ASTM D5185(m)		0	0	<1
	Silver	ppm	ASTM D5185(m)	>3	0	<1	0
	Aluminum	ppm	ASTM D5185(m)		<1	2	2
	Lead	ppm	ASTM D5185(m)		0	0	<1
	Copper	ppm	ASTM D5185(m)		1	<1	<1
	Tin	ppm	. ,	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal		Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		5	3	8
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1	2	2
	Fuel	%	ASTM D7593*	>5	0.0	0.9	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0	0	0
	Nitration	Abs/cm	ASTM D7624*	>20	5.2	4.0	7.1
	Sulfation	Abs/.1mm		>30	21.8	13.8	17.3
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>192	3	<1	8
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		57	31	80
	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)		42	17	86
	Manganese	ppm	ASTM D5185(m)		<1	0	<1
	Magnesium	ppm	ASTM D5185(m)		529	43	88
	Calcium	ppm	ASTM D5185(m)	3780	1711	2520	2278
	Phosphorus	ppm	ASTM D5185(m)	1370	938	1169	1086
	Zinc	ppm	ASTM D5185(m)	1500	1082	1214	1205
	Sulfur	ppm	ASTM D5185(m)	3800	2523	2980	3548
	Oxidation	Abs/.1mm	ASTM D7414*	>25	19.6	7.6	13.2
	Visc @ 100°C	cSt	ASTM D7279(m)	15 /	<u> </u>	12.2	13.6





CALA
Tenny
Accordance The 1999011

ISO 17025:2017
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**Laboratory**: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Sample No.**: PN0005176 **Received**: 06 Jun 2024

 Lab Number
 : 02640200
 Tested
 : 10 Jun 2024

 Accredited Laboratory
 Unique Number
 : 5789362
 Diagnosed
 : 10 Jun 2024 - Kevin Marson

**Test Package**: MOB 1 (Additional Tests: FuelDilution, PercentFuel, 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.

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