WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

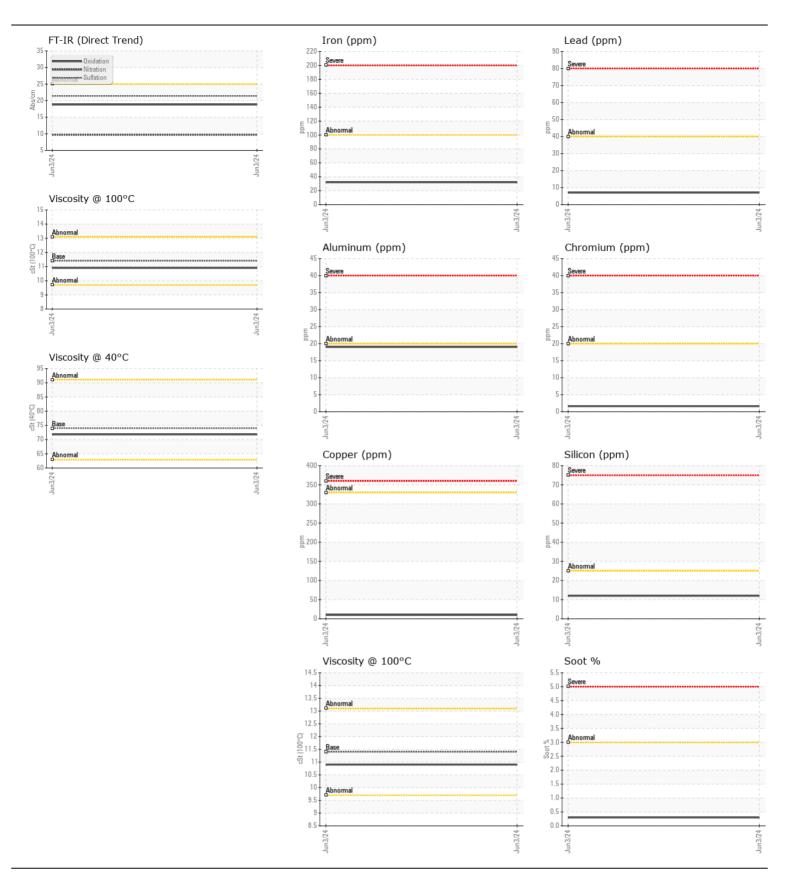
Machine Id

INTERNATIONAL 52966

Diesel Engine

PETRO CANADA DURON SAE 10W30 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0930266		
	Sample Date		Client Info		03 Jun 2024		
	Machine Age	mls	Client Info		48246		
	Oil Age	mls	Client Info		31709		
	Filter Age	mls	Client Info		31709		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>100	32		
	Chromium	ppm	ASTM D5185(m)	>20	2		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185(m)		<1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>3	<1		
	Aluminum	ppm	ASTM D5185(m)		19		
	Lead	ppm	ASTM D5185(m)	>40	7		
	Copper	ppm	ASTM D5185(m)		10		
	Tin	ppm	ASTM D5185(m)		2		
	Vanadium	ppm	ASTM D5185(m)	_	0		
	White Metal	scalar	Visual*	NONE	VLITE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	12		
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	48		
	Fuel		WC Method	>2.0	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>3	0.3		
	Nitration	Abs/cm	ASTM D7624*	>20	9.7		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	21.4		
	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		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2		
	Boron	ppm	ASTM D5185(m)	1	8		
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)	1	<1		
	Molybdenum	ppm	ASTM D5185(m)		62		
	Manganese	ppm	ASTM D5185(m)		2		
	Magnesium	ppm	ASTM D5185(m)	10	933		
	Calcium	ppm	ASTM D5185(m)		1184		
	Phosphorus	ppm	ASTM D5185(m)	1102	970		
	Zinc	ppm	ASTM D5185(m)	1351	1225		
	Sulfur	ppm	ASTM D5185(m)		2320		
	Guirai				18.8		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	10.0		
		Abs/.1mm cSt	ASTM D7414* ASTM D7279(m)		71.8		
	Oxidation			74.0			





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: WC0930266 Lab Number : 02645175

Unique Number : 5802714

Diagnosed Test Package : MOB 1 (Additional Tests: KV40, VI, 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.

Received

Tested

: 03 Jul 2024

: 04 Jul 2024

: 04 Jul 2024 - Wes Davis

MANITOULIN TRANSPORT

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