WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

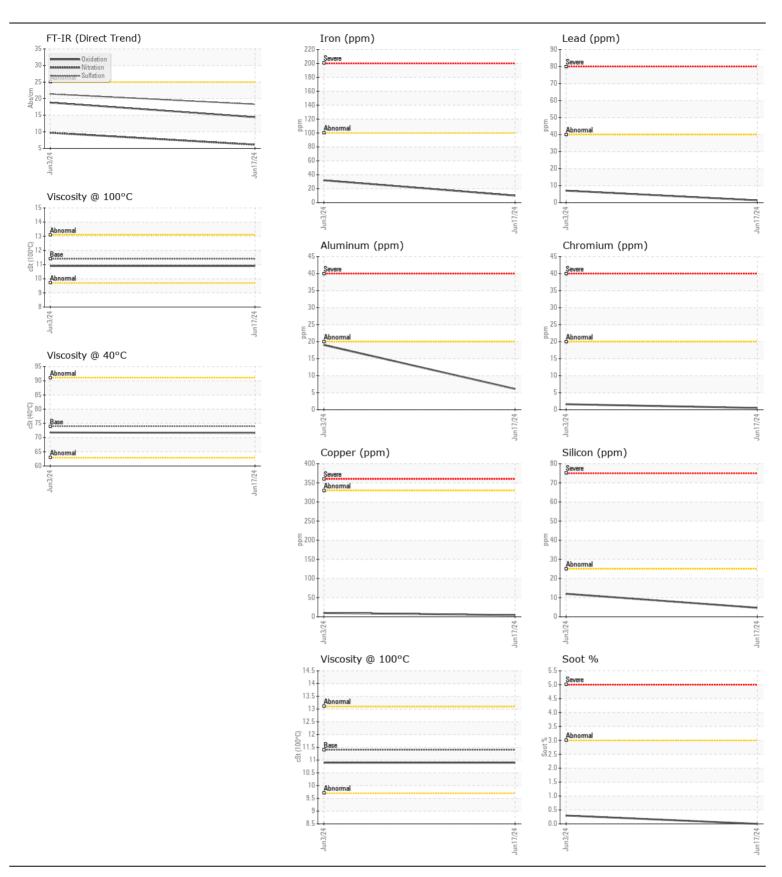
Machine Id

## **INTERNATIONAL 52966**

Diesel Engine

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0930270	WC0930266	
	Sample Date		Client Info		17 Jun 2024	03 Jun 2024	
	Machine Age	mls	Client Info		54436	48246	
	Oil Age	mls	Client Info		37894	31709	
	Filter Age	mls	Client Info		37894	31709	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>100	10	32	
	Chromium	ppm	ASTM D5185(m)		<1	2	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185(m)		<1	<1	
	Titanium	ppm	ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)	>3	<1	<1	
	Aluminum	ppm	ASTM D5185(m)		6	19	
	Lead	ppm	ASTM D5185(m)	>40	1	7	
	Copper	ppm	ASTM D5185(m)	>330	4	10	
	Tin	ppm	ASTM D5185(m)	>15	<1	2	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon		ACTM DE10E(m)	. 05	<i>-</i>	10	
CONTAMINATION	Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	>25	5 12	12 48	
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.	Fuel	ppm	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	ASTM D7844*	~3	0	0.3	
	Nitration	Abs/cm	ASTM D7644*	>20	6.1	9.7	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.3	21.4	
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	VLITE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML	NORML	
	<b>Emulsified Water</b>	scalar	Visual*	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185(m)		2	2	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		8	8	
	Barium	ppm	ASTM D5185(m)		1	<1	
	Molybdenum	ppm	ASTM D5185(m)		59	62	
	Manganese	ppm	ASTM D5185(m)		<1	2	
	Magnesium	ppm	ASTM D5185(m)		933	933	
	Calcium	ppm	ASTM D5185(m)		1062	1184	
	Phosphorus	ppm	ASTM D5185(m)		971	970	
	Zinc	ppm	ASTM D5185(m)		1169	1225	
	Sulfur	ppm Aba/1mm	ASTM D5185(m)		2565	2320	
	Oxidation	Abs/.1mm	ASTM D7970(m)		14.4	18.8	
	Visc @ 40°C	cSt	ASTM D7279(m)		71.6	71.8	
	Visc @ 100°C	cSt	ASTM D7279(m)		10.9	10.9	
	Viscosity Index (VI)	Scale	ASTM D2270*	146	141	141	





ISO 17025:2017
Accredited
Laboratory

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

 Sample No.
 : WC0930270
 Received
 : 03 Jul 2024

 Lab Number
 : 02645183
 Tested
 : 03 Jul 2024

 Unique Number
 : 5802722
 Diagnosed
 : 03 Jul 2024 - Wes Davis

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.

MANITOULIN TRANSPORT

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