

## Machine Id FREIGHTLINER 52904 Component Diesel Engine Fluid

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

RECOMMENDATION	RECO	MMEN	DATION	
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Resample at the next service interval to monitor.

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All component wear rates are normal.

## CONTAMINATION

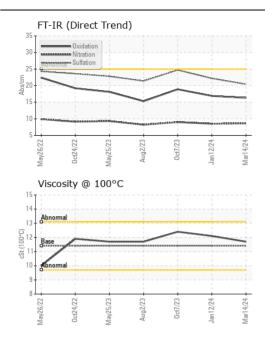
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

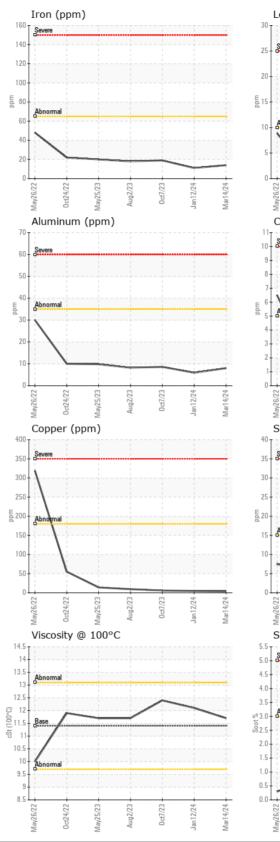
## FLUID CONDITION

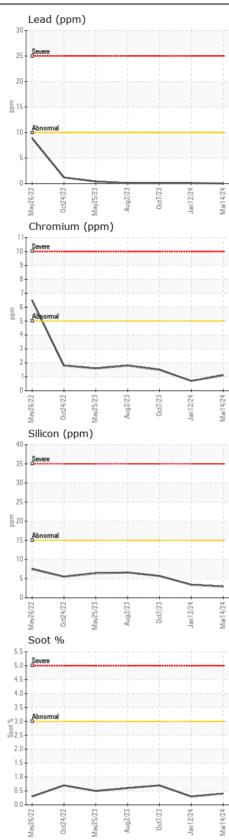
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0909574	WC0892039	WC0863980
Sample Date		Client Info		14 Mar 2024	12 Jan 2024	07 Oct 2023
Machine Age	kms	Client Info		373263	551849	0
Oil Age	kms	Client Info		30361	0	0
Filter Age	kms	Client Info		30361	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
			05			40
Iron	ppm	ASTM D5185(m)	>65	14	11	19
Chromium	ppm	ASTM D5185(m)	>5	1	<1	2
Nickel	ppm	ASTM D5185(m)	>3	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>35	8	6	9
Lead	ppm	ASTM D5185(m)	>10	0	<1	<1
Copper	ppm	ASTM D5185(m)	>180	4	5	6
Tin	ppm	ASTM D5185(m)	>8	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>15	3	3	6
Potassium	ppm	ASTM D5185(m)	>20	10	10	8
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.3	0.7
Nitration	Abs/cm	ASTM D7624*	>20	8.6	8.5	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.4	22.2	24.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		4	2	8
Boron	ppm	ASTM D5185(m)	1	9	88	34
Barium	ppm	ASTM D5185(m)	1	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	1	52	9	10
Manganese	ppm	ASTM D5185(m)	1	0	0	0
Magnesium	ppm	ASTM D5185(m)	10	859	118	135
Calcium	ppm	ASTM D5185(m)	2942	1219	2005	2105
Phosphorus	ppm	ASTM D5185(m)	1102	988	922	903
Zinc	ppm	ASTM D5185(m)	1351	1173	1084	1179
Sulfur	ppm	ASTM D5185(m)	3903	2502	2863	2637
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.3	16.9	18.9
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.7	12.1	12.4
130 @ 100 0	001	A01W D1213(III)	11.4		12.1	12.7

Contact/Location: Todd Smith - MANLIV









Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received : WC0909574 : 05 Apr 2024 Lab Number : 02626953 Tested : 05 Apr 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5760085 : 05 Apr 2024 - Wes Davis Diagnosed Test Package : MOB 1 To discuss this sample report, contact Customer Service at 1-800-268-2131.

MANITOULIN TRANSPORT 75 MUMFORD ROAD LIVELY, ON CA P3Y 1L1 Contact: Todd Smith tosmith@manitoulintransport.com T: (705)562-3302 F: x:

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.

Contact/Location: Todd Smith - MANLIV Page 2 of 2