

## Machine Id **NAVISTAR 4957** Componer **Diesel Engine** PETRO CANADA DURON SAE 10W30 (--- GAL)

RECOMMENDATION
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Resample at the next service interval to monitor.

W	FΔ	R

Metal levels are typical for a new component breaking in.

## CONTAMINATION

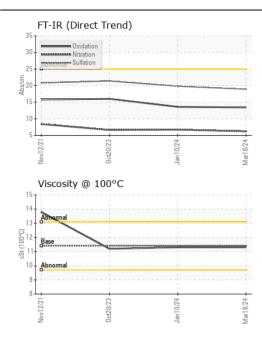
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

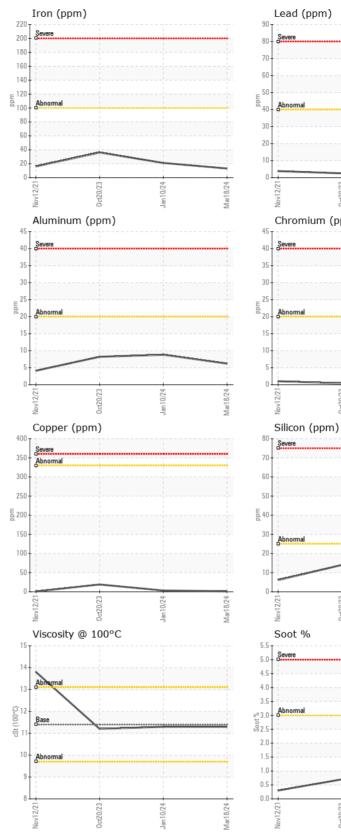
## FLUID CONDITION

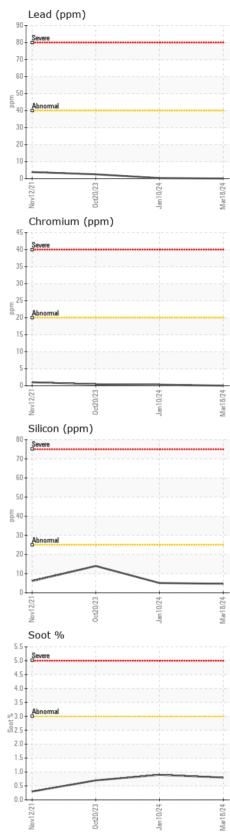
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Numbe	r	Client Info		WC0915493	WC0854866	WC0864015
Sample Date		Client Info		18 Mar 2024	10 Jan 2024	20 Oct 2023
Machine Age	mls	Client Info		30722	35437	9968
Oil Age	mls	Client Info		8704	0	9968
Filter Age	mls	Client Info		8704	0	9968
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changeo	Ł	Client Info		Changed	Changed	Changed
Sample Status	5			NORMAL	NORMAL	NORMAL
Iron			. 100	10	01	06
Iron	ppm	ASTM D5185(m)	>100	13	21	36
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	6	9	8
Lead	ppm	ASTM D5185(m)	>40	0	<1	2
Copper	ppm	ASTM D5185(m)	>330	1	3	19
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	5	5	14
Potassium	ppm	ASTM D5185(m)	>20	11	20	28
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.8	0.9	0.7
Nitration	Abs/cm	ASTM D7624*	>20	6.2	6.7	6.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	19.8	21.4
Emulsified Wate	r scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		2	2	5
Boron	ppm	ASTM D5185(m)	1	6	9	93
Barium	ppm	ASTM D5185(m)	1	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	1	60	59	65
Manganese	ppm	ASTM D5185(m)	1	0	<1	3
Magnesium	ppm	ASTM D5185(m)	10	970	899	411
Calcium	ppm	ASTM D5185(m)	2942	1031	1103	1849
Phosphorus	ppm	ASTM D5185(m)	1102	1024	1001	1062
Zinc	ppm	ASTM D5185(m)	1351	1191	1143	1278
Sulfur	ppm	ASTM D5185(m)	3903	2601	2729	2851
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.4	13.6	16.0
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.3	11.3	11.2
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Contact/Location: Todd Smith - MANLIV









Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received : WC0915493 : 08 Apr 2024 Lab Number : 02627265 Tested :08 Apr 2024 ISO 17025:2017 Accredited Laboratory Diagnosed Unique Number : 5760397 : 08 Apr 2024 - Wes Davis Test Package : MOB 1 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 75 MUMFORD ROAD LIVELY, ON CA P3Y 1L1 Contact: Todd Smith

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