

4900 series

Navistar 4952

Diesel Engine

PETRO CANADA DURON SHP 10W30 (40 LTR)

	RECOM	MEND.	ATION
--	-------	-------	-------

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

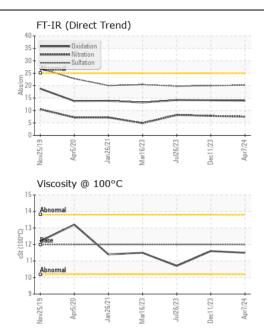
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

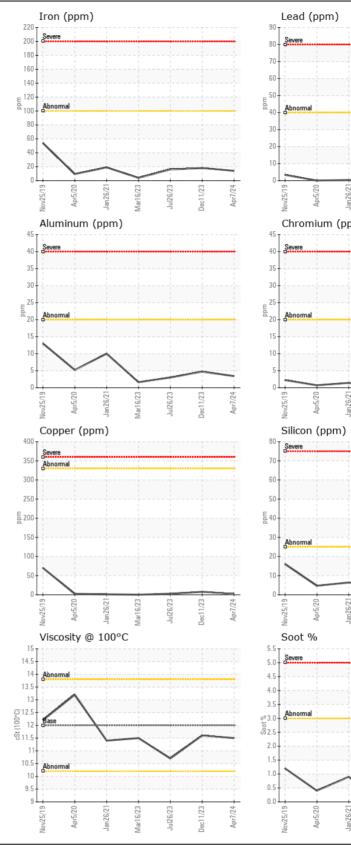
FLUID CONDITION

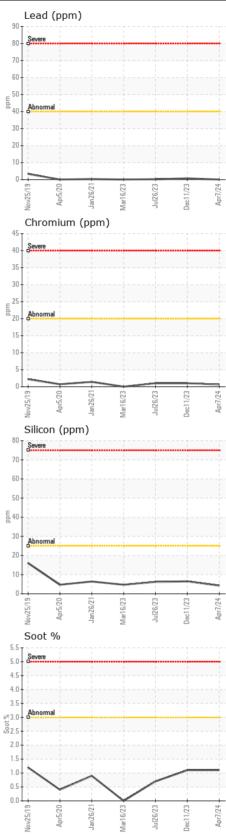
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0915507	WC0879054	WC0828186
Sample Date		Client Info		07 Apr 2024	11 Dec 2023	26 Jul 2023
Machine Age	kms	Client Info		7466	157239	144179
Oil Age	kms	Client Info		7466	8019	0
Filter Age	kms	Client Info		7466	8019	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
			400		40	
Iron	ppm	ASTM D5185(m)	>100	14	18	16
Chromium	ppm	ASTM D5185(m)	>20	<1	1	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	-	0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	5	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	8	3
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	4	6	6
Potassium	ppm	ASTM D5185(m)	>20	6	8	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>3	1.1	1.1	0.7
Nitration	Abs/cm	ASTM D7624*	>20	7.5	7.8	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	20.0	19.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Codium					00	
Sodium	ppm	ASTM D5185(m) ASTM D5185(m)	0	5	28 2	38
Boron	ppm			5 0		6
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	60	61	60
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	950	974	977	971
Calcium	ppm	ASTM D5185(m)	1050	1058	1048	1029
Phosphorus	ppm	ASTM D5185(m)	995	1019	1016	1055
Zinc	ppm	ASTM D5185(m)	1180	1205	1205	1175
Sulfur	ppm	ASTM D5185(m)	2600	2595	2604	2630
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.0	14.1	14.2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.5	11.6	10.7

Contact/Location: Todd Smith - MANLIV









Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0915507 Received : 30 Apr 2024 Lab Number : 02632278 Tested : 30 Apr 2024 ISO 17025:2017 Accredited : 30 Apr 2024 - Wes Davis Unique Number : 5773431 Diagnosed Laboratory 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 tosmith@manitoulintransport.com T: (705)562-3302 F: x:

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