

Area **51000 series** Machine Id **Navistar 51767** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 10W30 (40 LTR)**

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR		

All component wear rates are normal.

CONTAMINATION

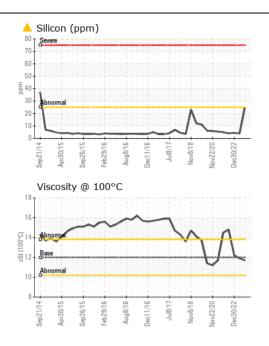
There is a moderate concentration of dirt present in the oil.

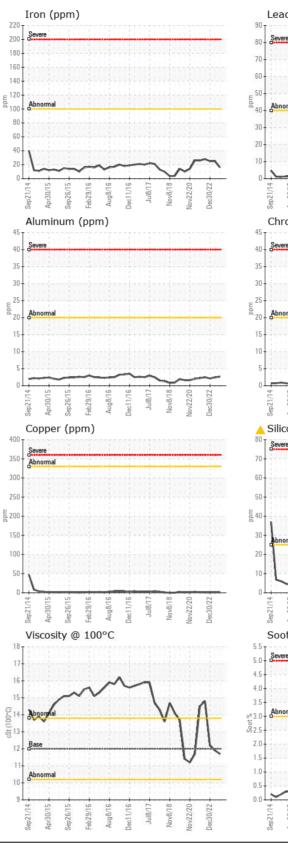
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	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0844352	WC0828170	WC0769985
	Sample Date		Client Info		20 Feb 2024	15 Jul 2023	30 Dec 2022
	Machine Age	mls	Client Info		777113	755737	749641
	Oil Age	mls	Client Info		21376	5748	10770
	Filter Age	mls	Client Info		21376	5748	10770
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
	Iron			. 100	16	05	25
	Chromium	ppm	ASTM D5185(m) ASTM D5185(m)	>100	16	25	<1
	Nickel	ppm		>20	<1 <1	<1 0	
		ppm	ASTM D5185(m)	>4			<1
	Titanium	ppm	ASTM D5185(m)	0	0	0	<1
	Silver	ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	3	2	2
	Lead	ppm	ASTM D5185(m)	>40	1	1	2
	Copper	ppm	ASTM D5185(m)	>330	1	1	1
	Tin	ppm	ASTM D5185(m)	>15	0	<1	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Silicon	ppm	ASTM D5185(m)	>25	4 25	4	4
	Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1
	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	0.4	0.4	0.2
	Nitration	Abs/cm	ASTM D7624*	>20	10.5	11.2	11.2
	Sulfation	Abs/.1mm	ASTM D7415*	>30	21.7	23.6	23.7
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		2	2	2
	Boron	ppm	ASTM D5185(m)	2	4	8	5
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	50	63	65	62
	Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
	Magnesium	ppm	ASTM D5185(m)	950	1017	1035	1020
	Calcium	ppm	ASTM D5185(m)	1050	1132	1141	1216
	Phosphorus	ppm	ASTM D5185(m)	995	1077	1108	1148
	Zinc	ppm	ASTM D5185(m)	1180	1239	1265	1285
	Sulfur	ppm	ASTM D5185(m)	2600	2757	2554	2662
	Oxidation	Abs/.1mm	ASTM D7414*	>25	19.4	21.1	20.9
	Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.7	11.9	12.2
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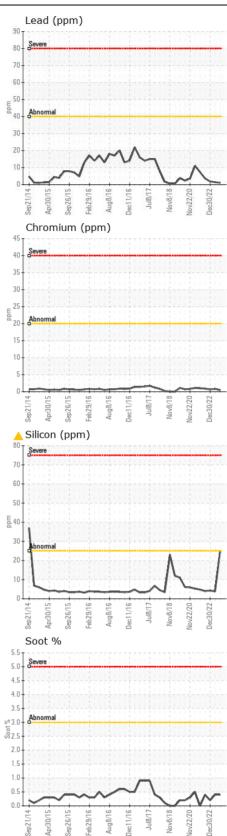
FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Contact/Location: Todd Smith - MANLIV







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0844352 Received : 29 Feb 2024 Lab Number : 02618911 : 29 Feb 2024 Tested ISO 17025:2017 Accredited : 29 Feb 2024 - Kevin Marson Unique Number : 5736021 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.

tosmith@manitoulintransport.com

Report Id: MANLIV [WCAMIS] 02618911 (Generated: 02/29/2024 16:48:29) Rev: 1

Contact/Location: Todd Smith - MANLIV

MANITOULIN TRANSPORT

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