

## **OIL ANALYSIS REPORT**

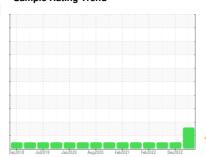
Sample Rating Trend

# DIRT

## **52000** series Navistar 52776

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (40 LTR)





#### DIAGNOSIS

#### Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

All component wear rates are normal.

#### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

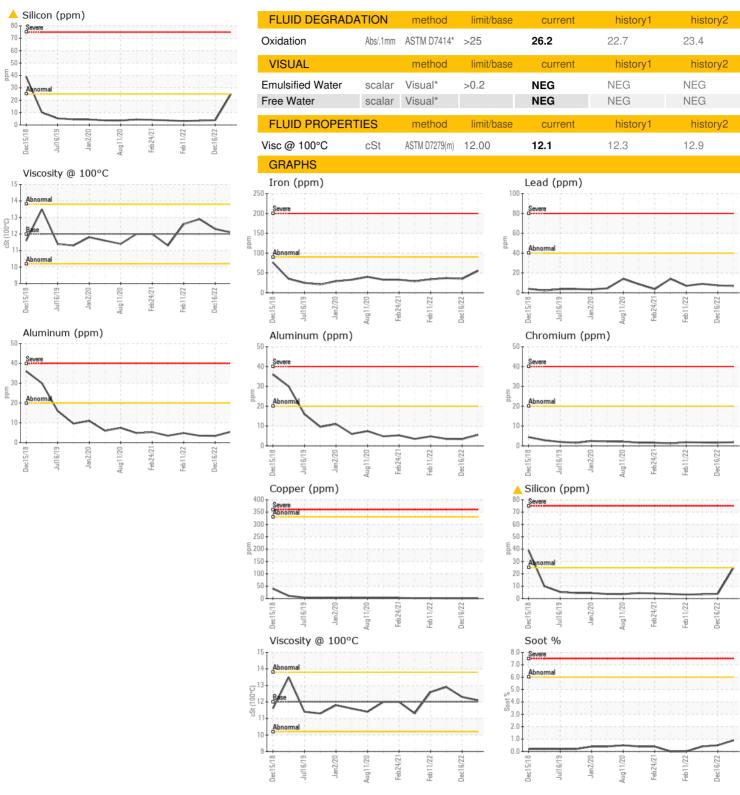
#### **Fluid Condition**

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

		Dec2018 Ji	ul2019 Jan2020 Aug	2020 Feb2021 Feb2022	Dec2022	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0915036	WC0759723	WC0694034
Sample Date		Client Info		21 Mar 2024	16 Dec 2022	30 May 2022
Machine Age	mls	Client Info		541345	477872	411962
Oil Age	mls	Client Info		29416	31476	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	I	method	limit/base	current	history1	history2
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
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	55	35	37
Chromium	ppm	ASTM D5185(m)	>20	2	2	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)		6	3	4
Lead	ppm	ASTM D5185(m)	>40	7	7	9
Copper	ppm	ASTM D5185(m)		1	<1	1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	2	2	1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	64	64	65
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	1034	1054	1080
Calcium	ppm	ASTM D5185(m)	1050	1129	1189	1202
Phosphorus	ppm	ASTM D5185(m)	995	1048	1150	1128
Zinc	ppm	ASTM D5185(m)	1180	1264	1316	1358
Sulfur	ppm	ASTM D5185(m)	2600	2455	2613	2632
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<u>^</u> 25	4	4
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.9	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	13.7	12.4	13.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.6	26.7	26.6



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CALA ISO 17025:2017 Accredited

Laboratory Sample No.

Lab Number : 02626385 Unique Number : 5759517 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 MANITOULIN TRANSPORT (GARAGE) : WC0915036

Received

: 03 Apr 2024 : 03 Apr 2024 **Tested** Diagnosed

: 03 Apr 2024 - Kevin Marson

1335 SHAWSON DRIVE MISSISSAUGA, ON CA L4W 1C4

Contact: Travis Spence tspence@manitoulintransport.com T:

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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.