



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

52000 series

Machine Id

Navistar 52726M

Component

Diesel Engine

Fluid

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0930268	WC0857699	WC0788110
Sample Date		Client Info		29 Apr 2024	19 Oct 2023	04 May 2023
Machine Age	mls	Client Info		69546	59998	572646
Oil Age	mls	Client Info		19565	27335	24520
Filter Age	mls	Client Info		19565	27335	24520
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	13	28	31
Chromium	ppm	ASTM D5185(m)	>20	<1	1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	5	6
Lead	ppm	ASTM D5185(m)	>40	<1	3	<1
Copper	ppm	ASTM D5185(m)	>330	<1	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

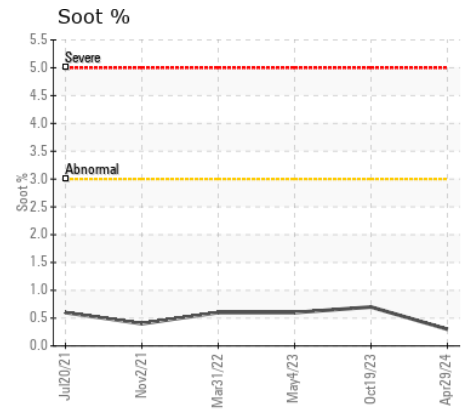
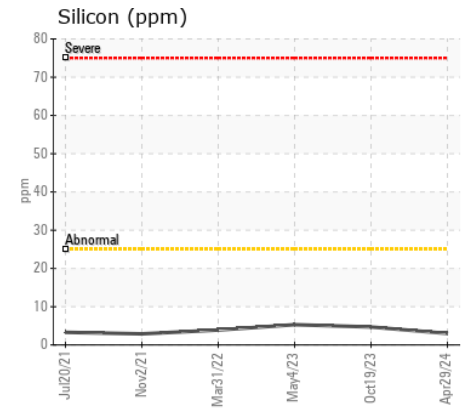
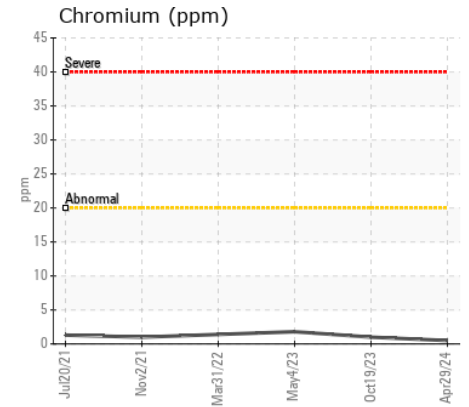
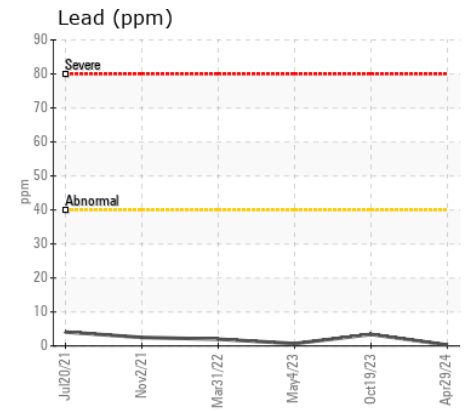
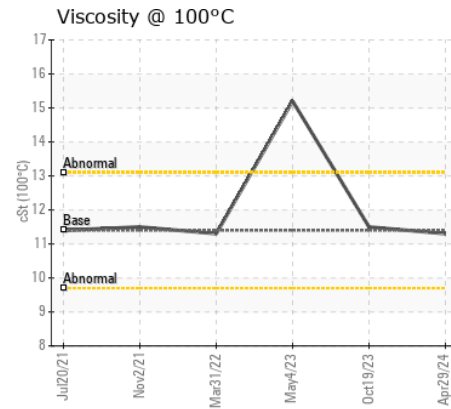
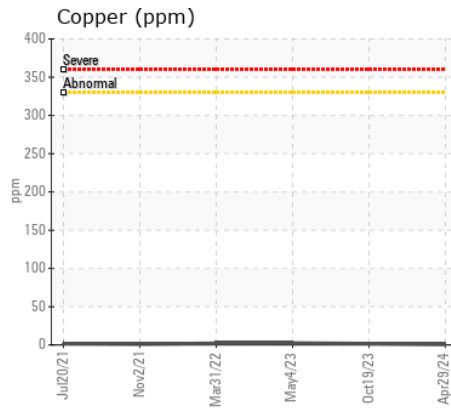
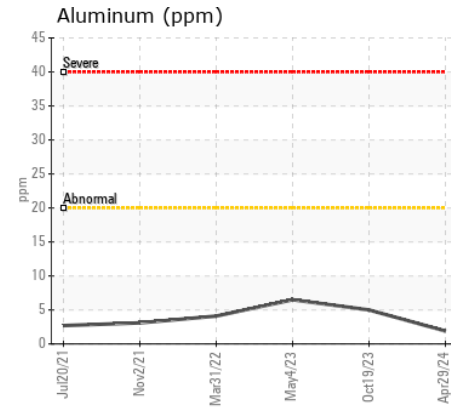
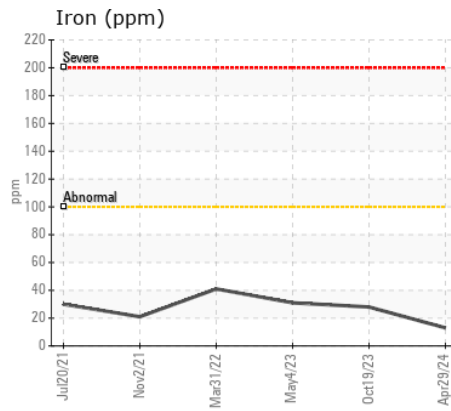
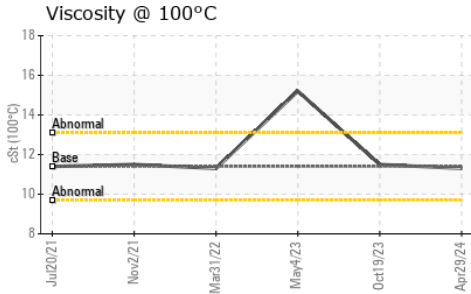
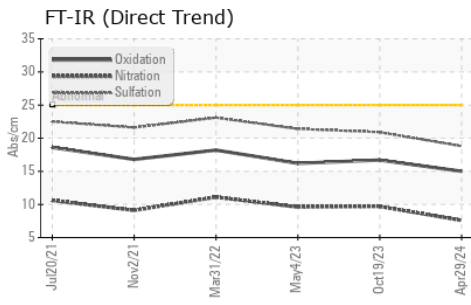
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	5	5
Potassium	ppm	ASTM D5185(m)	>20	0	<1	3
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	0.3	0.7	0.6
Nitration	Abs/cm	ASTM D7624*	>20	7.6	9.7	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	20.9	21.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		2	5	4
Boron	ppm	ASTM D5185(m)	1	3	7	8
Barium	ppm	ASTM D5185(m)	1	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	1	60	66	54
Manganese	ppm	ASTM D5185(m)	1	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	10	971	1019	773
Calcium	ppm	ASTM D5185(m)	2942	1071	1153	1110
Phosphorus	ppm	ASTM D5185(m)	1102	1006	1055	933
Zinc	ppm	ASTM D5185(m)	1351	1224	1267	1049
Sulfur	ppm	ASTM D5185(m)	3903	2598	2626	2610
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.0	16.7	16.2
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.3	11.5	15.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0930268 **Received** : 03 Jul 2024
Lab Number : 02645179 **Tested** : 03 Jul 2024
Unique Number : 5802718 **Diagnosed** : 03 Jul 2024 - Wes Davis
Test Package : MOB 1

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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.