



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
56000 series
 Machine Id
Toronto Navistar 56157
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0904884	WC	WC0709740
Sample Date		Client Info		05 May 2024	08 Jun 2023	12 Jun 2022
Machine Age	mls	Client Info		39504	333400	0
Oil Age	mls	Client Info		32889	30592	33643
Filter Age	mls	Client Info		32889	30592	33643
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	60	39	33
Chromium	ppm	ASTM D5185(m)	>20	5	4	2
Nickel	ppm	ASTM D5185(m)	>4	<1	1	1
Titanium	ppm	ASTM D5185(m)		<1	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	4	3	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	9	3	4
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	<1	<1

CONTAMINATION

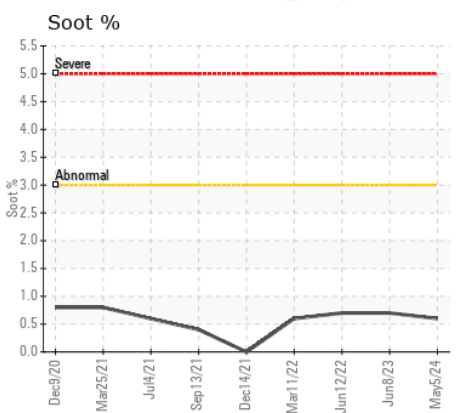
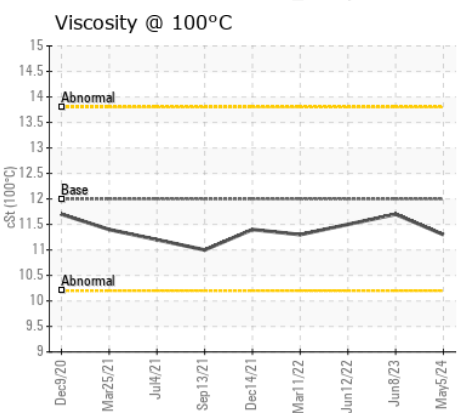
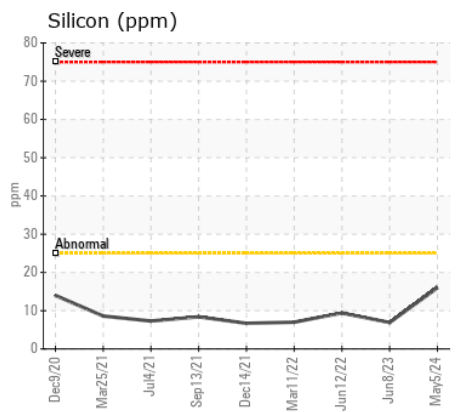
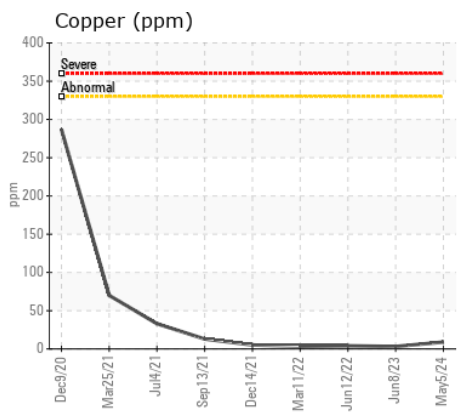
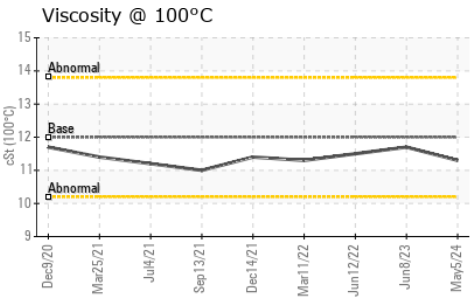
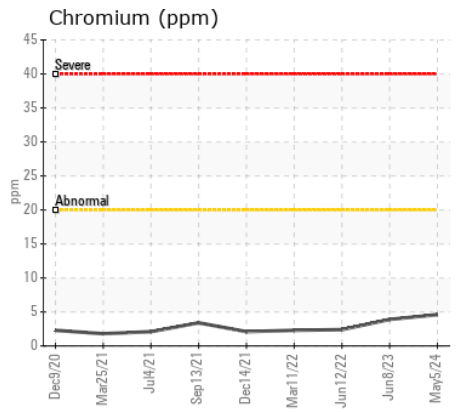
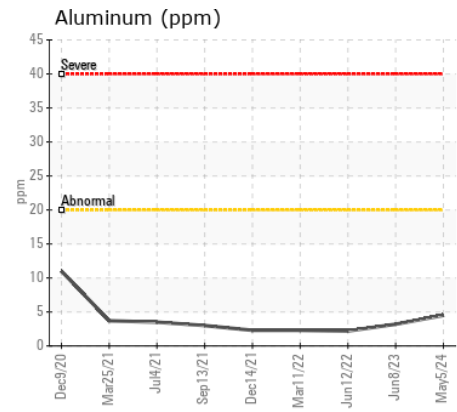
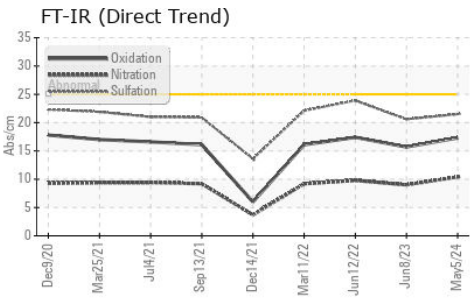
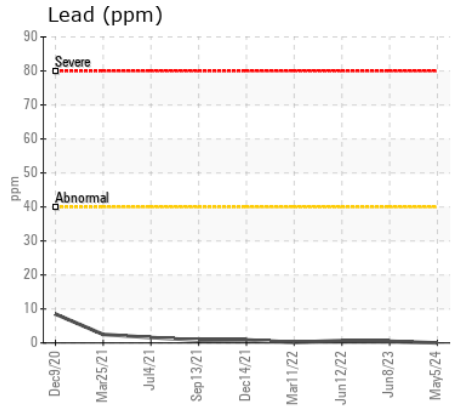
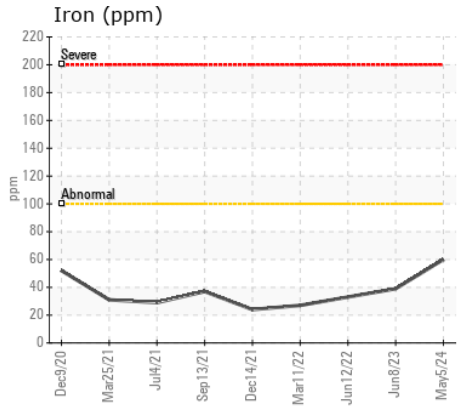
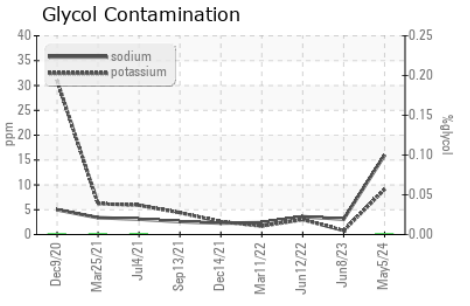
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	16	7	9
Potassium	ppm	ASTM D5185(m)	>20	9	<1	3
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.6	0.7	0.7
Nitration	Abs/cm	ASTM D7624*	>20	10.4	9.0	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.5	20.6	23.9
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)		16	3	4
Boron	ppm	ASTM D5185(m)	2	4	1	8
Barium	ppm	ASTM D5185(m)	0	2	0	0
Molybdenum	ppm	ASTM D5185(m)	50	67	63	55
Manganese	ppm	ASTM D5185(m)	0	4	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	1003	1017	893
Calcium	ppm	ASTM D5185(m)	1050	1156	1097	1355
Phosphorus	ppm	ASTM D5185(m)	995	1008	1089	1075
Zinc	ppm	ASTM D5185(m)	1180	1218	1247	1285
Sulfur	ppm	ASTM D5185(m)	2600	2458	2461	2586
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.3	15.7	17.4
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	11.7	11.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904884 **Received** : 14 May 2024
Lab Number : 02635193 **Tested** : 14 May 2024
Unique Number : 5776346 **Diagnosed** : 14 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

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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.