



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(15000) 51000 series

Machine Id
Navistar 51908

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		WC0904885	WC0892051	WC0844361
Sample Date		Client Info		05 May 2024	11 Mar 2024	20 Jan 2024
Machine Age	kms	Client Info		30326	1103072	1048987
Oil Age	kms	Client Info		30326	0	0
Filter Age	kms	Client Info		30326	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	13	16	14
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	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	3	4
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

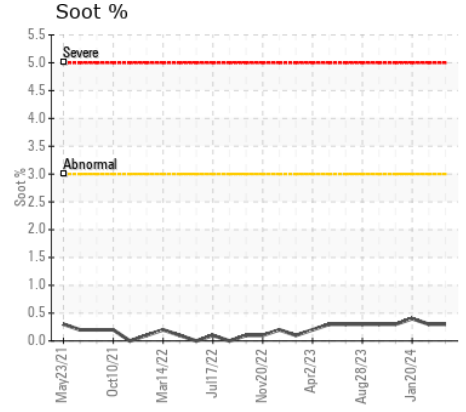
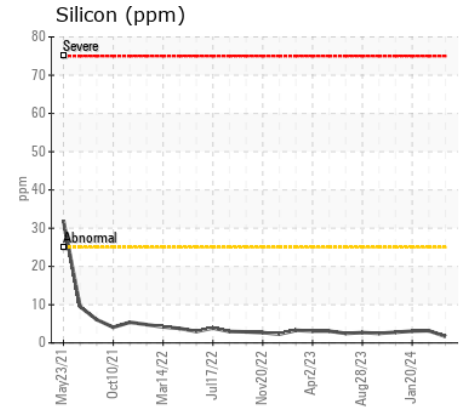
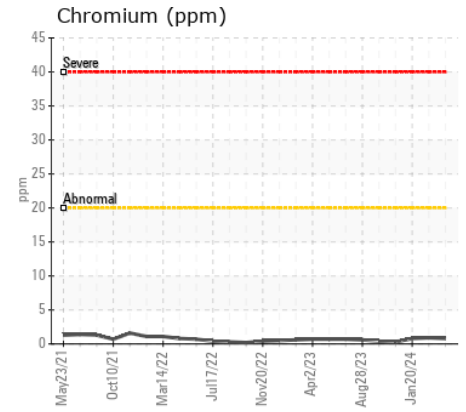
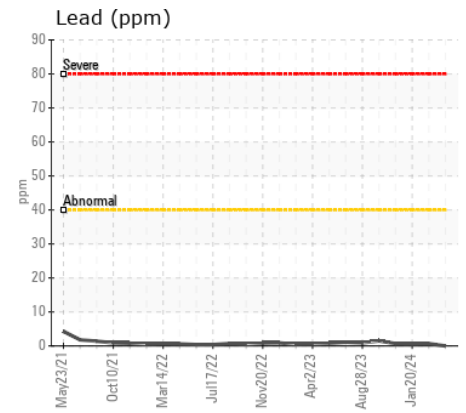
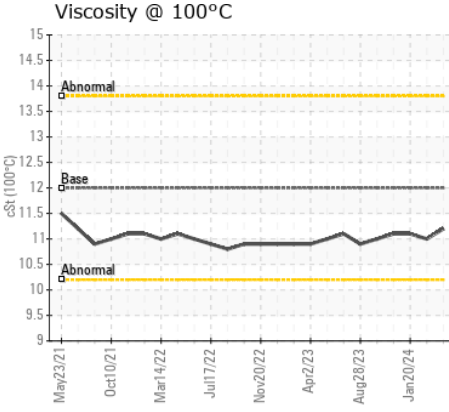
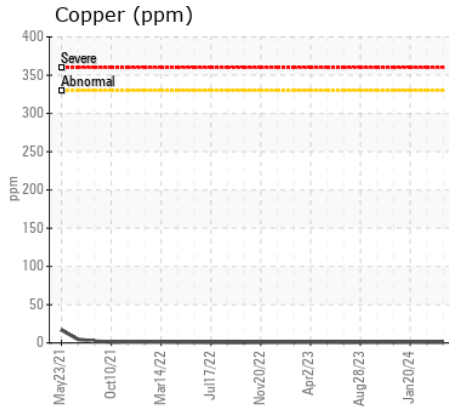
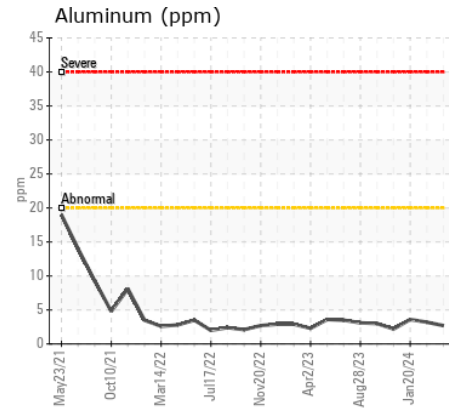
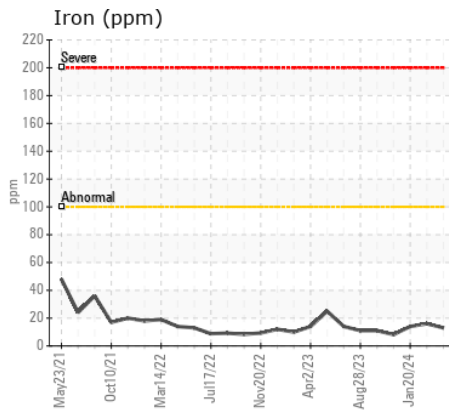
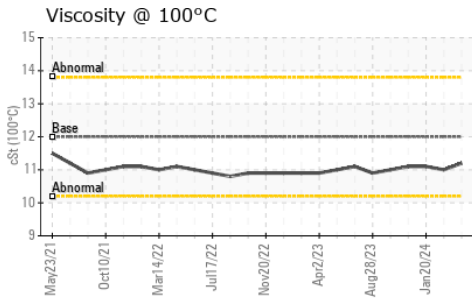
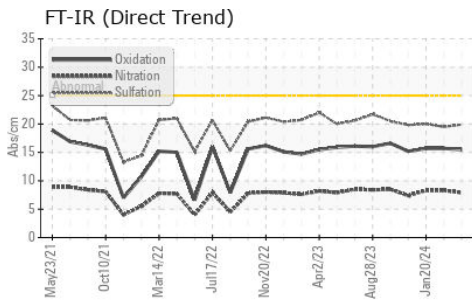
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	3
Potassium	ppm	ASTM D5185(m)	>20	2	3	2
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	0.3	0.4
Nitration	Abs/cm	ASTM D7624*	>20	7.9	8.3	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	19.5	20.0
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	1	2
Boron	ppm	ASTM D5185(m)	2	2	5	6
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	60	64	61
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	996	974	974
Calcium	ppm	ASTM D5185(m)	1050	1047	1093	1077
Phosphorus	ppm	ASTM D5185(m)	995	1007	1011	1013
Zinc	ppm	ASTM D5185(m)	1180	1205	1207	1200
Sulfur	ppm	ASTM D5185(m)	2600	2422	2624	2603
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.5	15.7	15.7
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.2	11.0	11.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904885 **Received** : 14 May 2024
Lab Number : 02635223 **Tested** : 14 May 2024
Unique Number : 5776376 **Diagnosed** : 14 May 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.