



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
54000 series
 Machine Id
Navistar 54160
 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		WC0915463	WC0892045	WC0879064
Sample Date		Client Info		17 May 2024	18 Mar 2024	01 Dec 2023
Machine Age	mls	Client Info		23053	792355	26629
Oil Age	mls	Client Info		23053	33469	26629
Filter Age	mls	Client Info		23053	33469	26629
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)	>90	26	42	22
Chromium	ppm	ASTM D5185(m)	>20	1	3	2
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	11	17	5
Lead	ppm	ASTM D5185(m)	>40	2	4	3
Copper	ppm	ASTM D5185(m)	>330	1	2	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

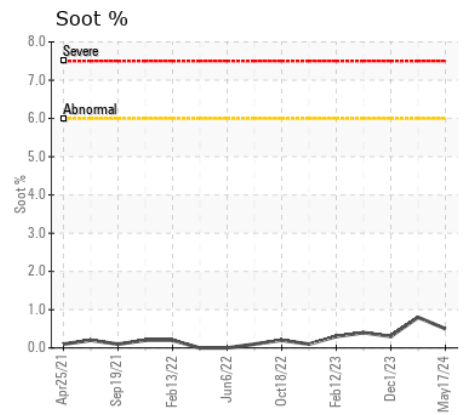
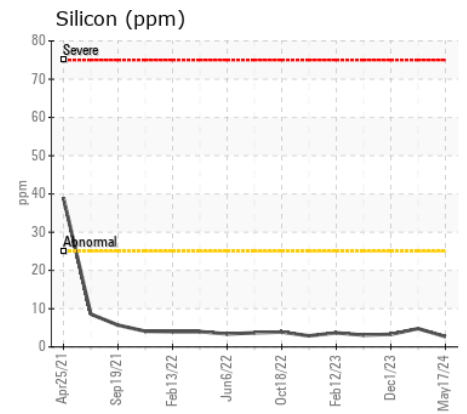
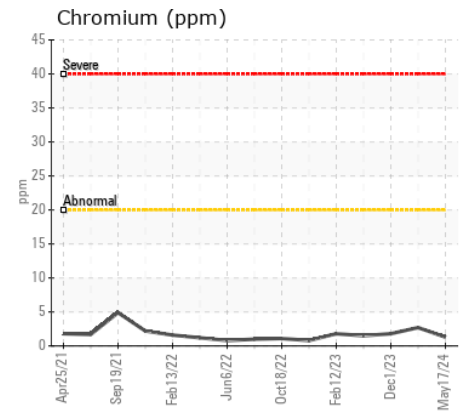
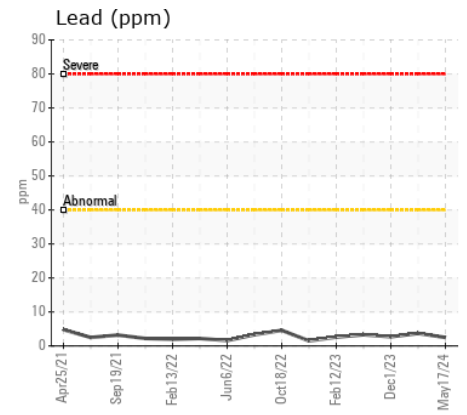
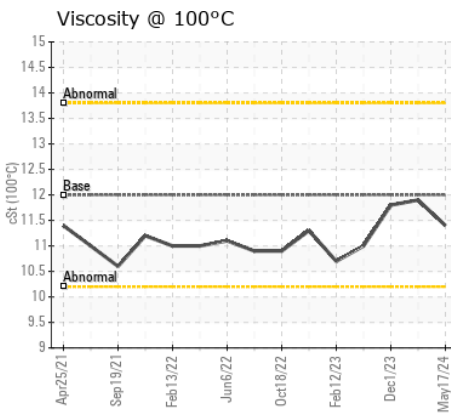
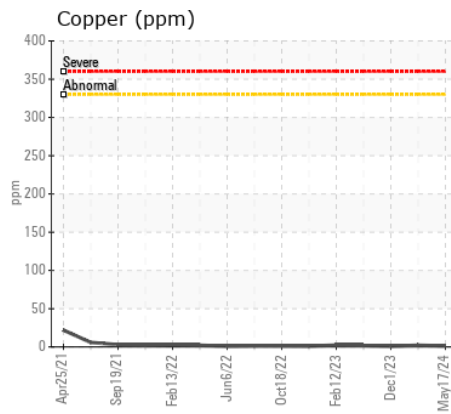
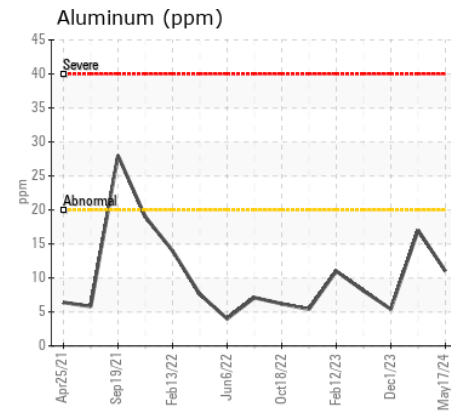
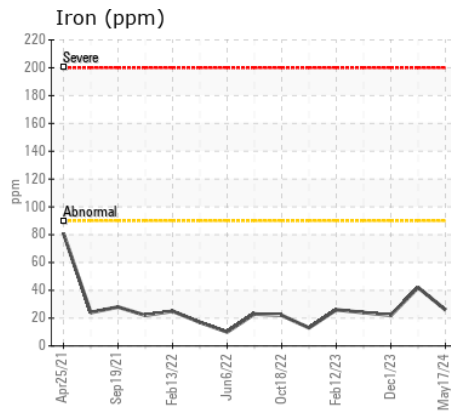
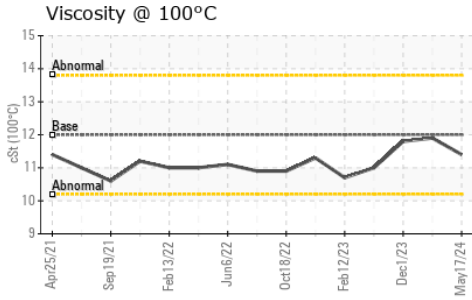
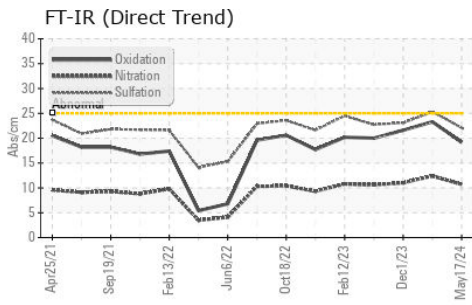
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	5	3
Potassium	ppm	ASTM D5185(m)	>20	4	5	1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>6	0.5	0.8	0.3
Nitration	Abs/cm	ASTM D7624*	>20	10.7	12.4	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	25.3	23.1
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)		1	2	2
Boron	ppm	ASTM D5185(m)	2	4	4	4
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	64	69	63
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	1031	1042	1005
Calcium	ppm	ASTM D5185(m)	1050	1127	1188	1156
Phosphorus	ppm	ASTM D5185(m)	995	1050	1100	1020
Zinc	ppm	ASTM D5185(m)	1180	1261	1302	1249
Sulfur	ppm	ASTM D5185(m)	2600	2466	2529	2408
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.2	23.3	21.6
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.4	11.9	11.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0915463
Lab Number : 02640150
Unique Number : 5789312
Test Package : MOB 1
Received : 06 Jun 2024
Tested : 06 Jun 2024
Diagnosed : 06 Jun 2024 - Wes Davis

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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.