



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
52000 series
 Machine Id
Navistar 52572
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0927603	WC0893686	WC0847627
Sample Date		Client Info		15 May 2024	19 Jan 2024	23 Sep 2023
Machine Age	mls	Client Info		601612	587949	571488
Oil Age	mls	Client Info		21500	16460	14933
Filter Age	mls	Client Info		21500	16460	14933
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	24	26	22
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	1
Lead	ppm	ASTM D5185(m)	>40	<1	2	<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

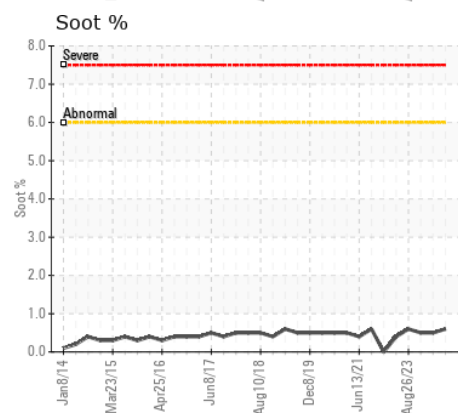
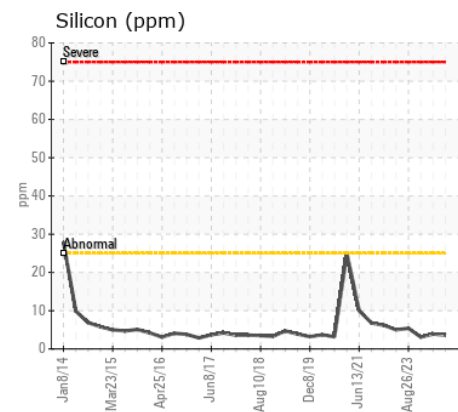
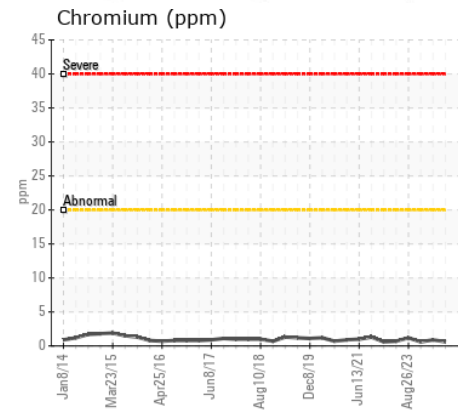
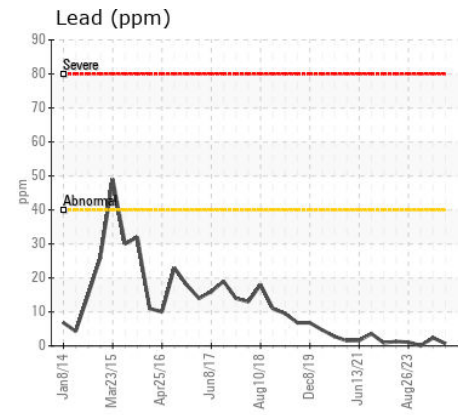
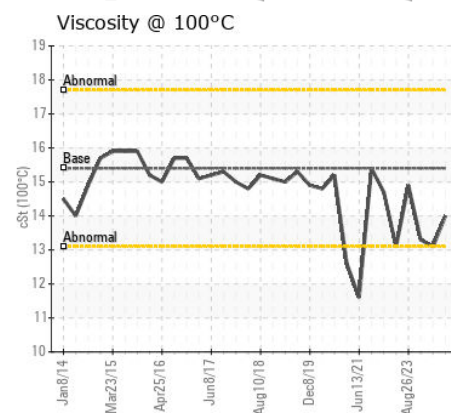
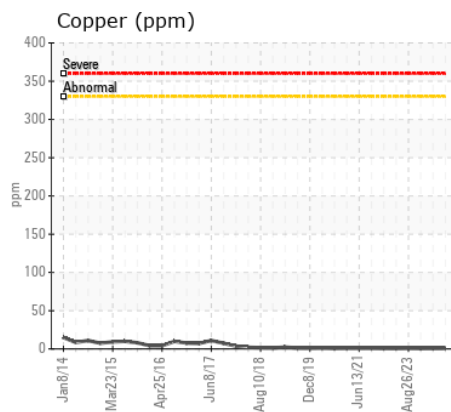
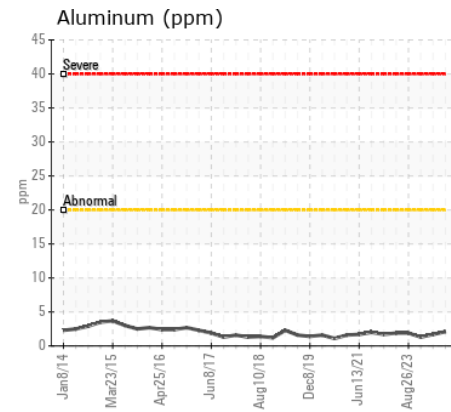
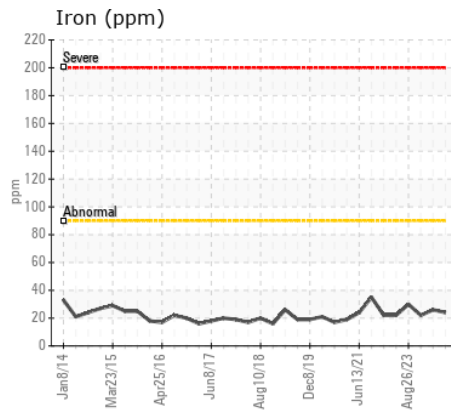
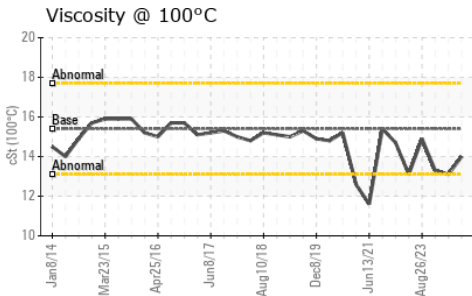
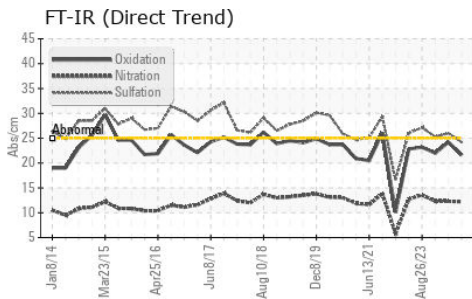
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	4	3
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<1
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
Soot %	%	ASTM D7844*	>6	0.6	0.5	0.5
Nitration	Abs/cm	ASTM D7624*	>20	12.2	12.3	12.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.2	26.0	25.3
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)		3	2	2
Boron	ppm	ASTM D5185(m)	0	3	4	8
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	67	69	69
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	1066	1117	957
Calcium	ppm	ASTM D5185(m)	1070	1203	1291	1298
Phosphorus	ppm	ASTM D5185(m)	1150	1094	1191	1097
Zinc	ppm	ASTM D5185(m)	1270	1304	1400	1306
Sulfur	ppm	ASTM D5185(m)	2060	2543	2820	2611
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.6	24.2	22.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.0	13.1	13.3



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0927603
Lab Number : 02639367
Unique Number : 5788529
Test Package : MOB 1

Received : 03 Jun 2024
Tested : 03 Jun 2024
Diagnosed : 03 Jun 2024 - Wes Davis

MANITOULIN TRANSPORT

161 MAIN STREET
 THUNDER BAY, ON
 CA P7B 6S5
 Contact: Ivan Brady
 ibrady@manitoulintransport.com
 T: (807)345-6501
 F: (807)345-6731

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.