



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
52000 series
Machine Id
Navistar 52618
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (40 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0893703	WC0857738	WC0788143
Sample Date		Client Info		28 Feb 2024	03 Oct 2023	14 Apr 2023
Machine Age	mls	Client Info		477662	465718	450146
Oil Age	mls	Client Info		12168	15572	16638
Filter Age	mls	Client Info		12168	15572	16638
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)	>165	9	16	17
Chromium	ppm	ASTM D5185(m)	>5	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>150	0	3	2
Copper	ppm	ASTM D5185(m)	>90	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

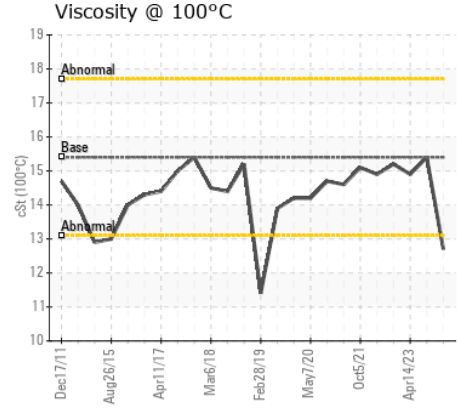
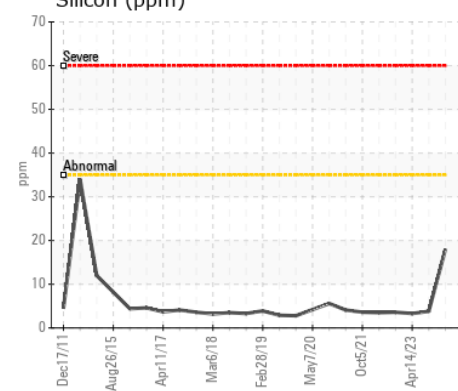
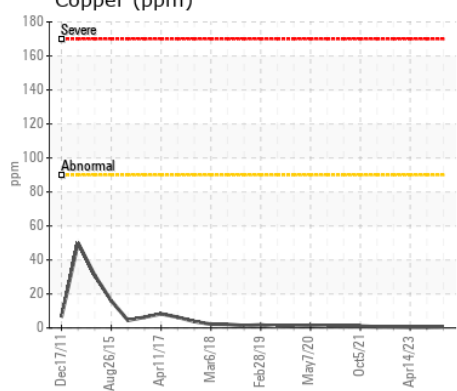
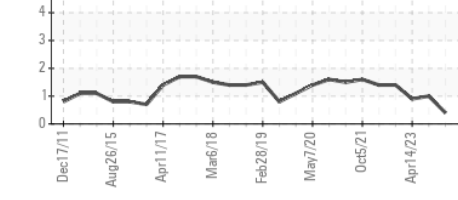
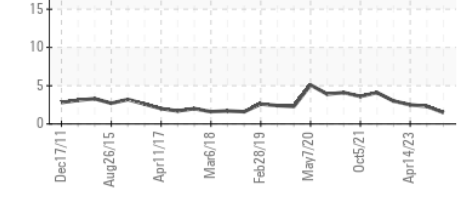
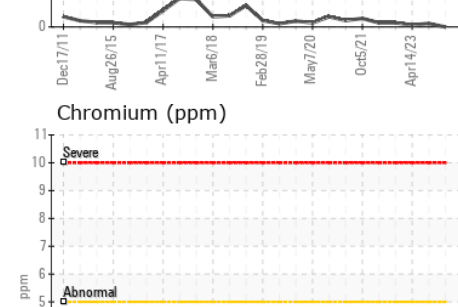
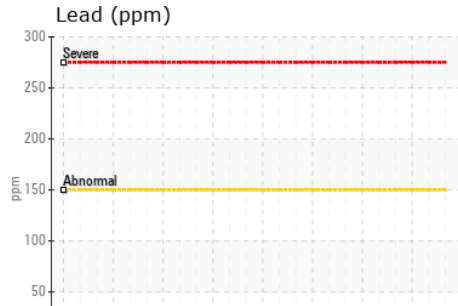
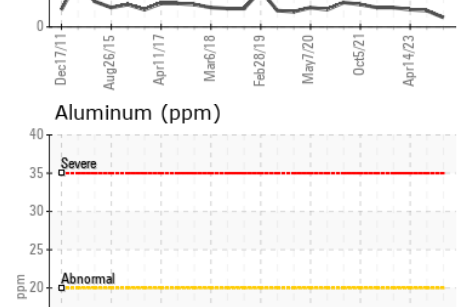
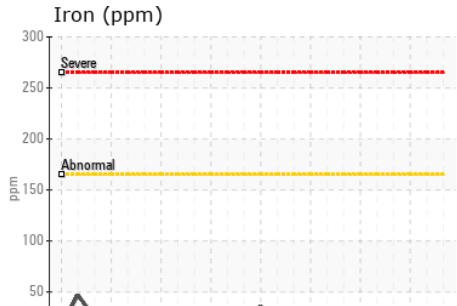
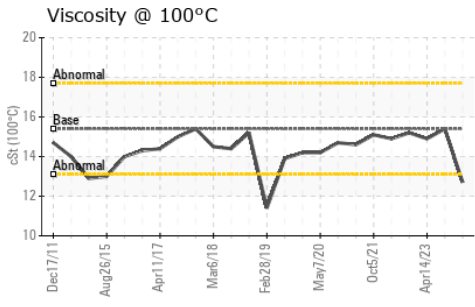
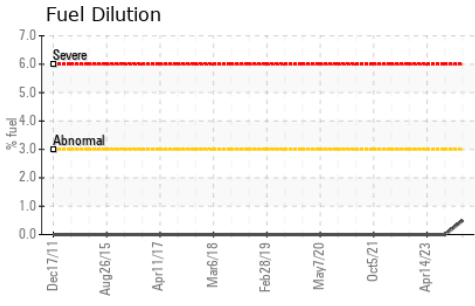
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	18	4	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>3.0	0.5	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>7.5	0.3	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	10.2	13.5	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	26.5	24.8
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)	0	2	7	2
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	64	68	66
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	1064	1140	1104
Calcium	ppm	ASTM D5185(m)	1070	1138	1204	1262
Phosphorus	ppm	ASTM D5185(m)	1150	1060	1135	1212
Zinc	ppm	ASTM D5185(m)	1270	1270	1363	1377
Sulfur	ppm	ASTM D5185(m)	2060	2576	2766	2764
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.8	25.8	23.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.7	15.4	14.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0893703
Lab Number : 02625530
Unique Number : 5750649
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)
Received : 01 Apr 2024
Tested : 02 Apr 2024
Diagnosed : 02 Apr 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.