



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
52000 series
 Machine Id
Navistar 52648
 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		WC0935011	WC0854861	WC0837246
Sample Date		Client Info		27 May 2024	19 Jan 2024	24 Jun 2023
Machine Age	mls	Client Info		530035	530035	603352
Oil Age	mls	Client Info		17489	13308	17159
Filter Age	mls	Client Info		17489	13308	17159
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	28	29	24
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	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	4	2
Lead	ppm	ASTM D5185(m)	>150	7	9	2
Copper	ppm	ASTM D5185(m)	>90	2	2	1
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

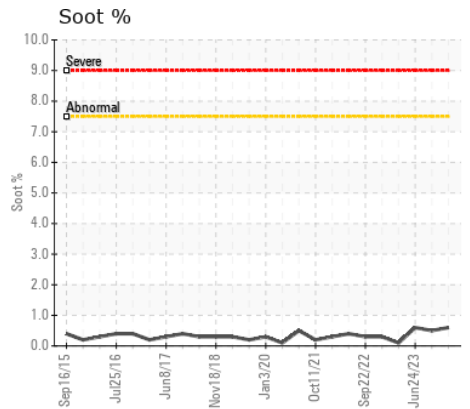
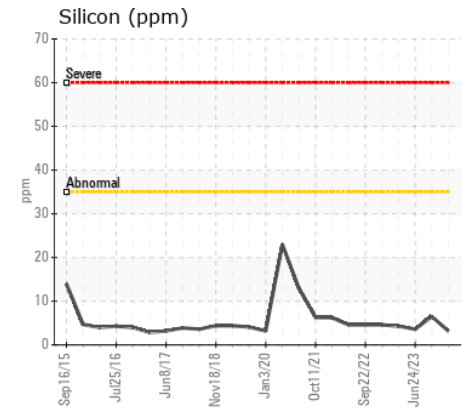
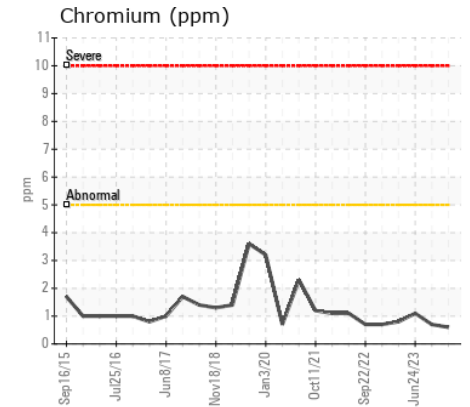
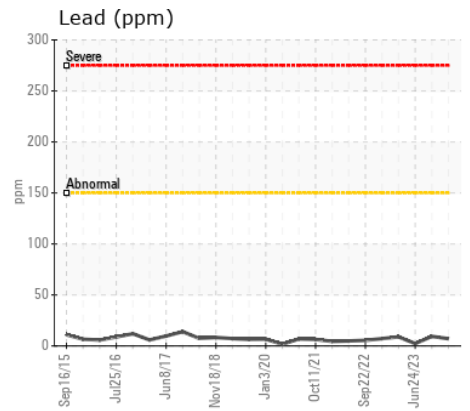
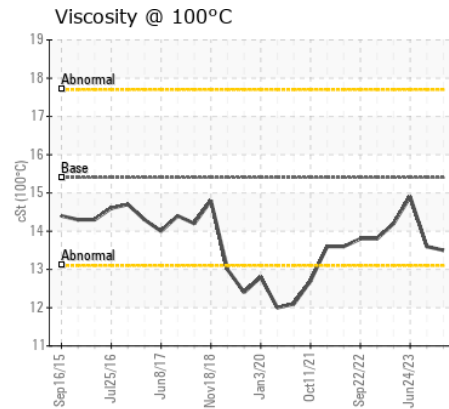
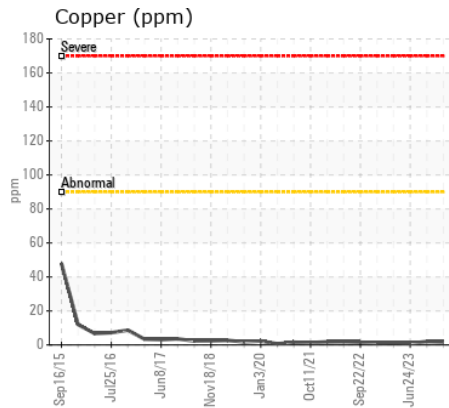
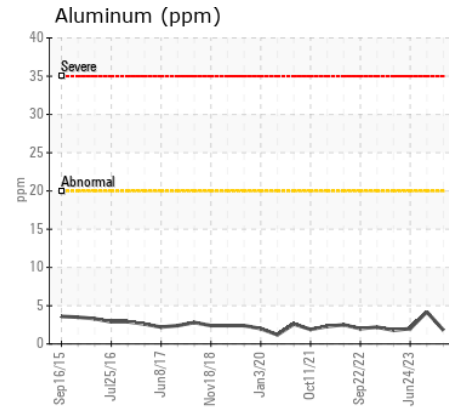
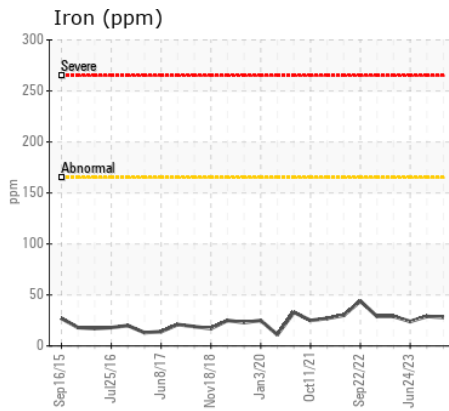
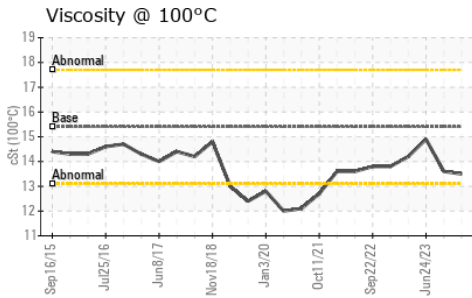
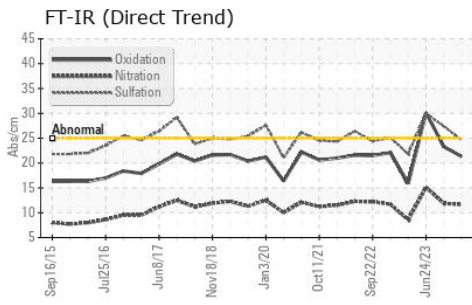
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	3	6	4
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*	>7.5	0.6	0.5	0.6
Nitration	Abs/cm	ASTM D7624*	>20	11.6	11.9	15.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.6	27.4	30.0
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)		6	4	2
Boron	ppm	ASTM D5185(m)	0	10	115	6
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	76	113	75
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	1126	865	1220
Calcium	ppm	ASTM D5185(m)	1070	1300	1527	1317
Phosphorus	ppm	ASTM D5185(m)	1150	1143	945	1291
Zinc	ppm	ASTM D5185(m)	1270	1368	1085	1465
Sulfur	ppm	ASTM D5185(m)	2060	2662	2537	2728
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.3	23.3	▲ 30.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.5	13.6	14.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0935011 **Received** : 06 Jun 2024
Lab Number : 02640076 **Tested** : 06 Jun 2024
Unique Number : 5789238 **Diagnosed** : 06 Jun 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.