



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
4000 series
 Machine Id
Navistar 4232
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0893707	WC0857724	WC0805668
Sample Date		Client Info		26 Mar 2024	18 Nov 2023	12 Jul 2023
Machine Age	mls	Client Info		180497	172817	165114
Oil Age	mls	Client Info		7680	7703	7984
Filter Age	mls	Client Info		7680	7703	7984
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)	>130	39	34	32
Chromium	ppm	ASTM D5185(m)	>10	2	1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	11	10	10
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>125	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

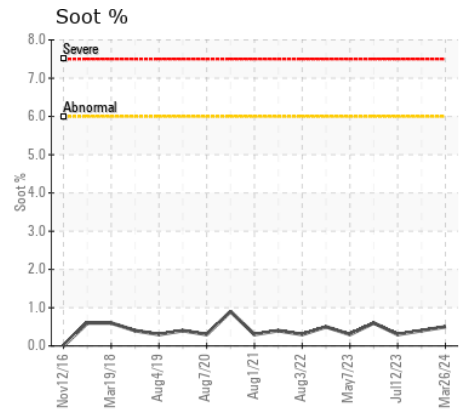
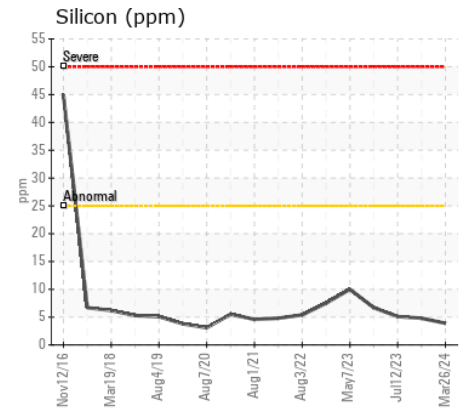
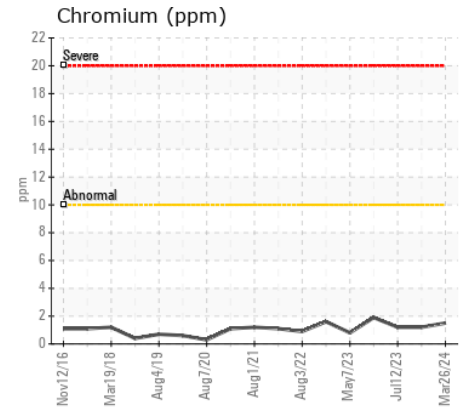
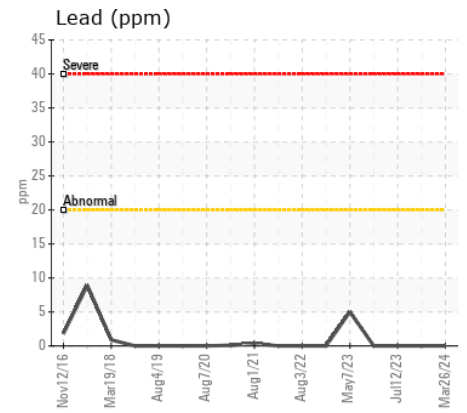
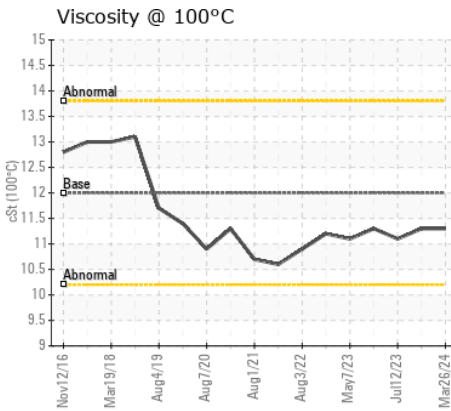
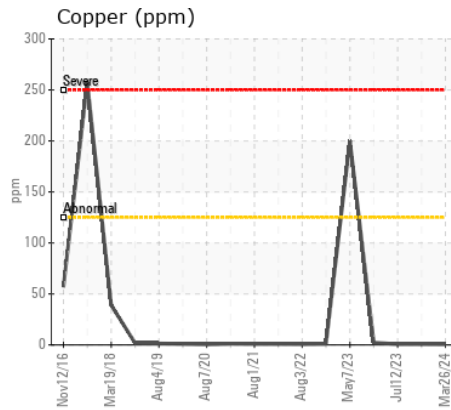
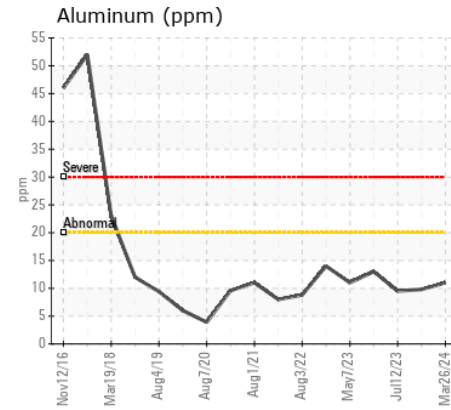
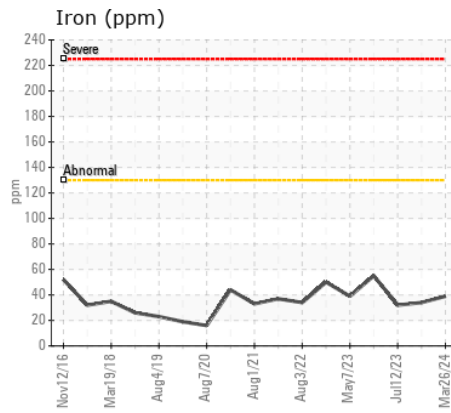
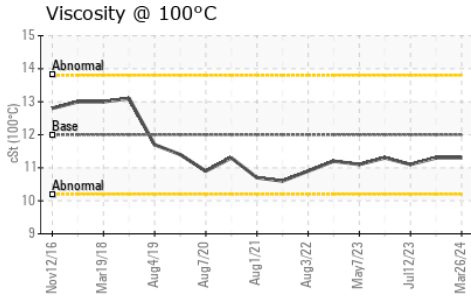
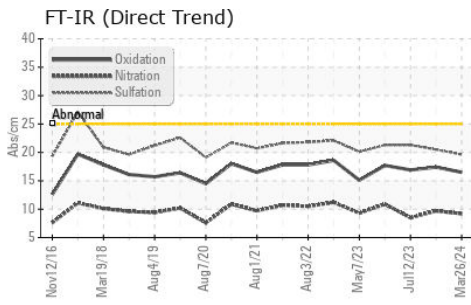
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	5	5
Potassium	ppm	ASTM D5185(m)	>20	2	5	4
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	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.2	9.7	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	20.5	21.3
Silt	scalar	Visual*	NONE	NONE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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)		13	24	27
Boron	ppm	ASTM D5185(m)	2	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	60	59	57
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	950	937	961	927
Calcium	ppm	ASTM D5185(m)	1050	1076	1087	995
Phosphorus	ppm	ASTM D5185(m)	995	1010	1048	1045
Zinc	ppm	ASTM D5185(m)	1180	1174	1221	1164
Sulfur	ppm	ASTM D5185(m)	2600	2443	2655	2416
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.5	17.4	16.9
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	11.3	11.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0893707 **Received** : 03 Jun 2024
Lab Number : 02639379 **Tested** : 03 Jun 2024
Unique Number : 5788541 **Diagnosed** : 03 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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.