



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
51000 series
 Machine Id
51942
 Component
Diesel Engine
 Fluid
AC DELCO 10W30 MOTOR OIL (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0893713	WC0847654	WC0857737
Sample Date		Client Info		09 Apr 2024	18 Dec 2023	13 Oct 2023
Machine Age	mls	Client Info		282084	228404	203377
Oil Age	mls	Client Info		27731	25027	27080
Filter Age	mls	Client Info		27731	25027	27080
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	21	27	17
Chromium	ppm	ASTM D5185(m)	>5	1	<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	3	4	4
Lead	ppm	ASTM D5185(m)	>150	<1	1	<1
Copper	ppm	ASTM D5185(m)	>90	2	1	1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

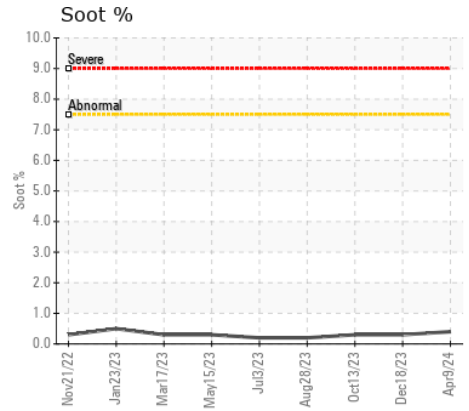
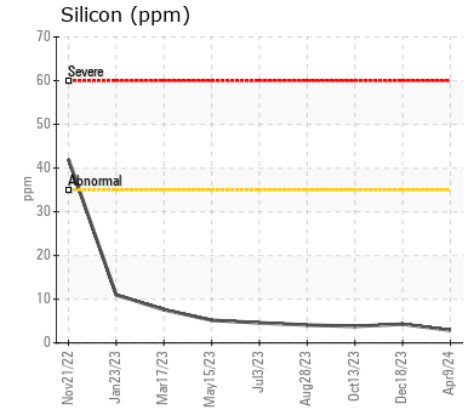
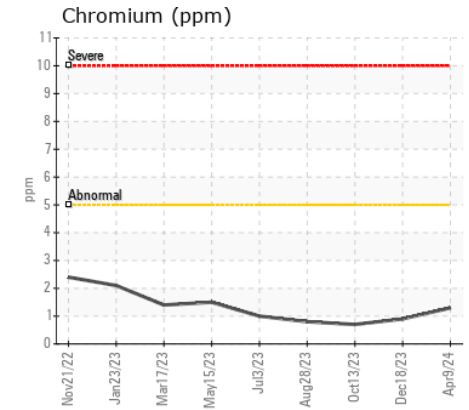
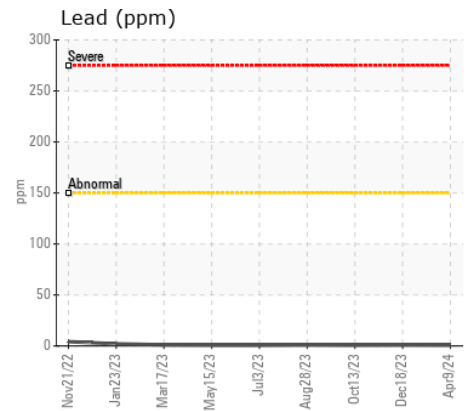
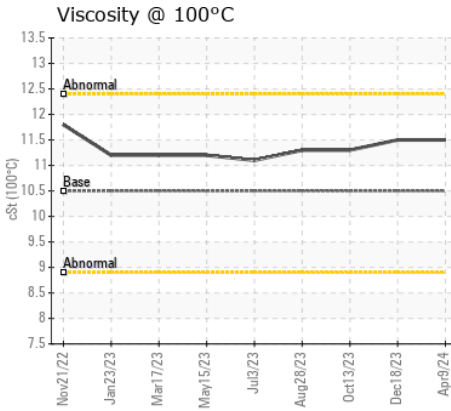
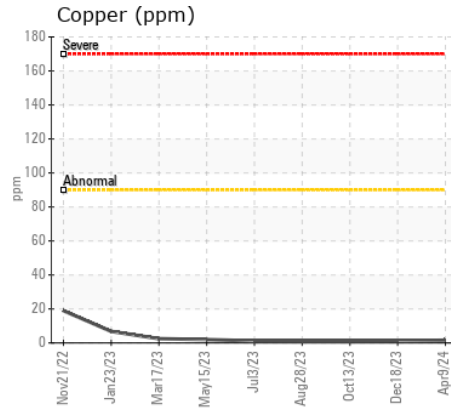
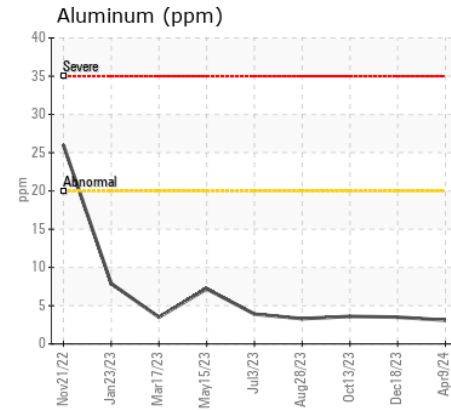
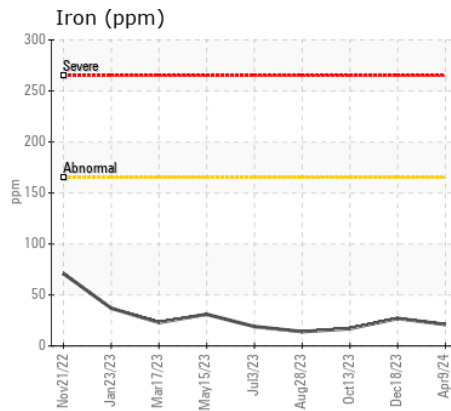
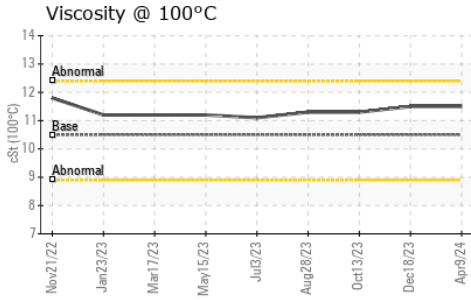
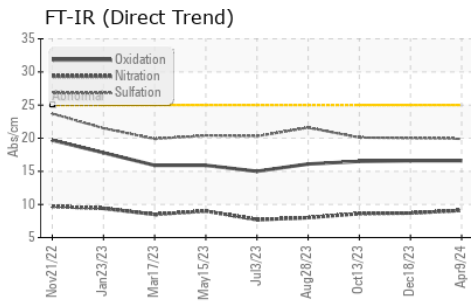
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	3	4	4
Potassium	ppm	ASTM D5185(m)	>20	3	4	5
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	0.4	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.1	8.7	8.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	20.0	20.1
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)		2	1	1
Boron	ppm	ASTM D5185(m)		3	1	4
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		60	61	58
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		979	1009	959
Calcium	ppm	ASTM D5185(m)		1092	1096	1102
Phosphorus	ppm	ASTM D5185(m)		967	1006	993
Zinc	ppm	ASTM D5185(m)		1181	1224	1205
Sulfur	ppm	ASTM D5185(m)		2344	2549	2530
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.6	16.6	16.5
Visc @ 100°C	cSt	ASTM D7279(m)	10.5	11.5	11.5	11.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0893713
Lab Number : 02639370
Unique Number : 5788532
Test Package : MOB 1
Received : 03 Jun 2024
Tested : 03 Jun 2024
Diagnosed : 03 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.