



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[24322]

Machine Id

17-57

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0895484	WC0876561	WC0794647
Sample Date		Client Info		11 Apr 2024	22 Dec 2023	01 May 2023
Machine Age	kms	Client Info		15674	214110	210586
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	8	9	11
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	5	9	6
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	7	16	21
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

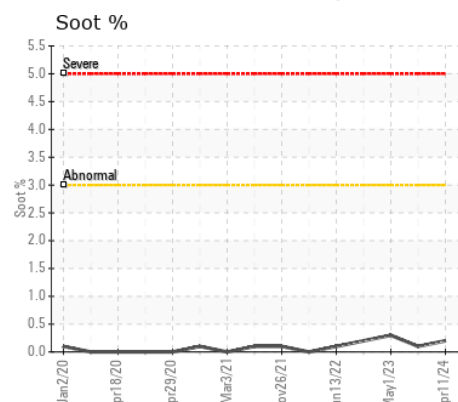
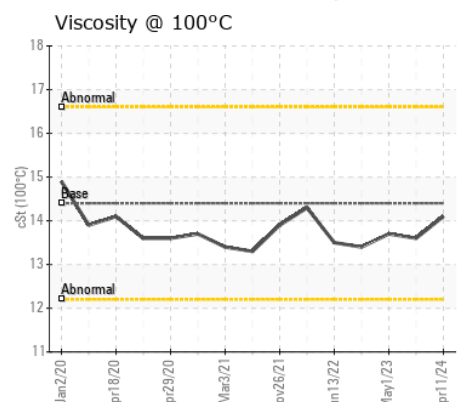
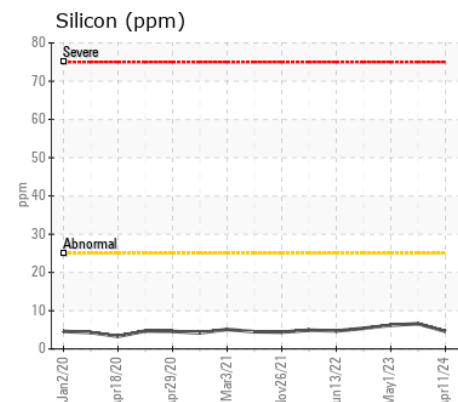
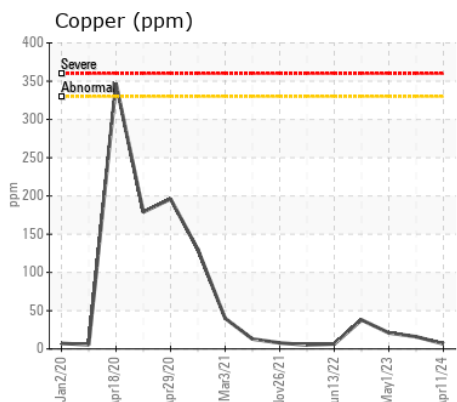
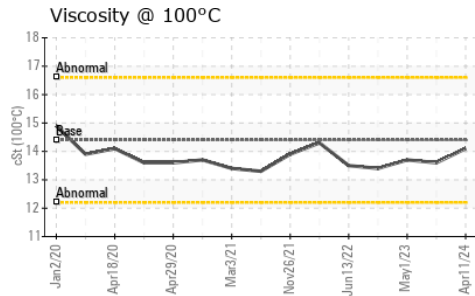
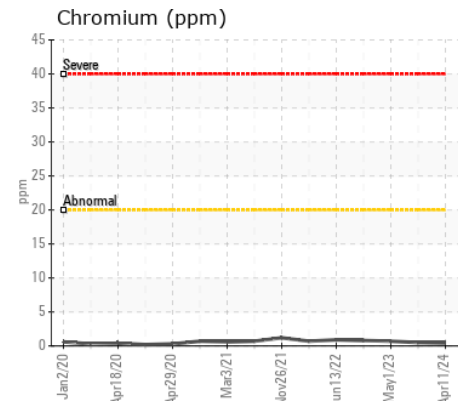
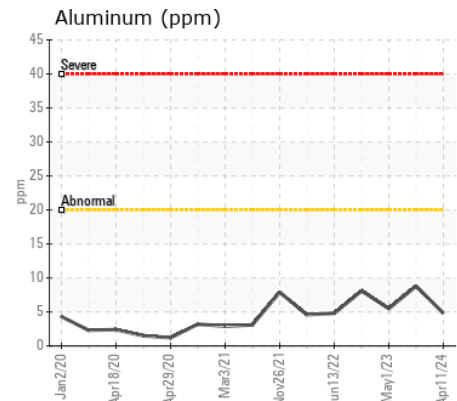
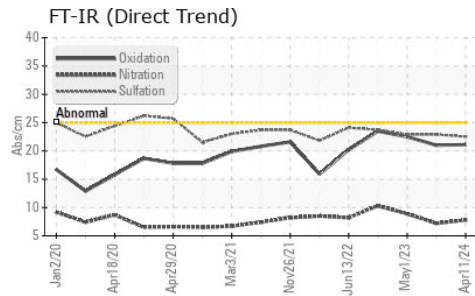
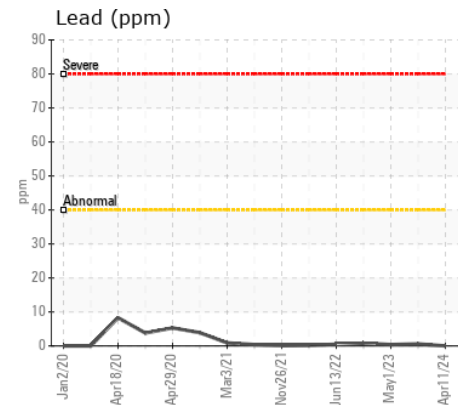
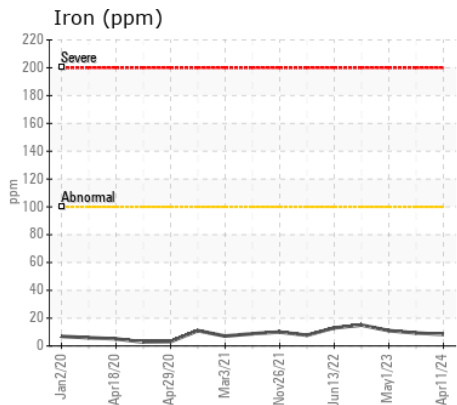
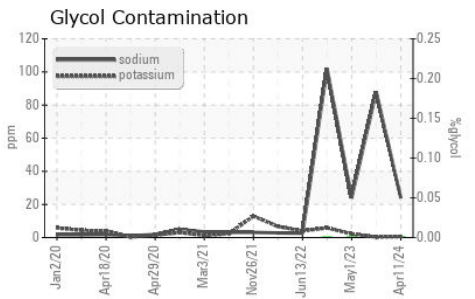
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	7	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>3	0.2	0.1	0.3
Nitration	Abs/cm	ASTM D7624*	>20	7.8	7.2	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.5	22.9	22.9
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)	>158	24	88	24
Boron	ppm	ASTM D5185(m)	250	32	37	30
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	40	40	45
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	450	518	498	559
Calcium	ppm	ASTM D5185(m)	3000	1735	1674	1953
Phosphorus	ppm	ASTM D5185(m)	1150	731	729	805
Zinc	ppm	ASTM D5185(m)	1350	886	838	916
Sulfur	ppm	ASTM D5185(m)	4250	2010	2108	2102
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.1	21.0	22.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.1	13.6	13.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895484
Lab Number : 02629436
Unique Number : 5762568
Test Package : MOB 1 (Additional Tests: Glycol)

Received : 17 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 17 Apr 2024 - Wes Davis

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 DUNDAS, ON
 CA L9H 5E2

Contact: Robert Hughes
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 F:

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.