



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 51938
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0892068	WC0879086	WC0828201
Sample Date		Client Info		23 Feb 2024	10 Nov 2023	03 Aug 2023
Machine Age	mls	Client Info		335829	307509	250251
Oil Age	mls	Client Info		28600	28169	35124
Filter Age	mls	Client Info		28600	28169	35124
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	21	17	18
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	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	4	3
Lead	ppm	ASTM D5185(m)	>40	2	3	2
Copper	ppm	ASTM D5185(m)	>330	1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

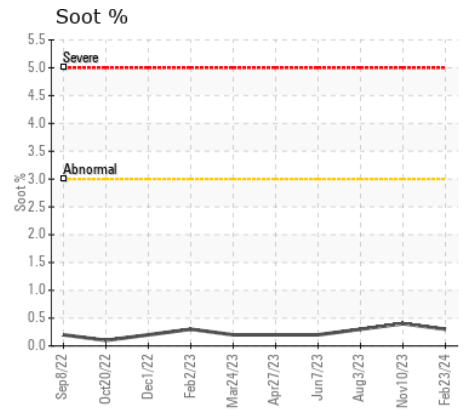
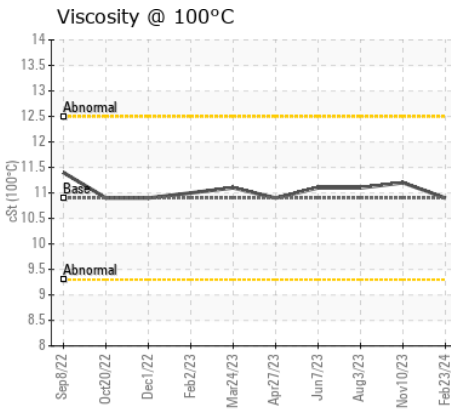
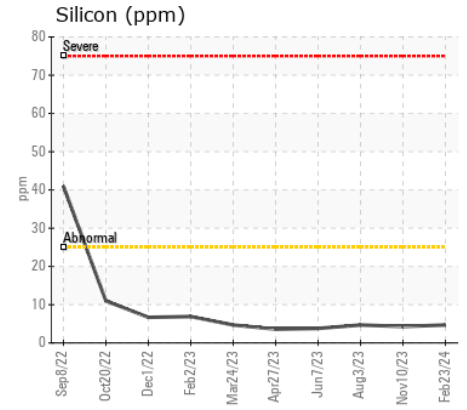
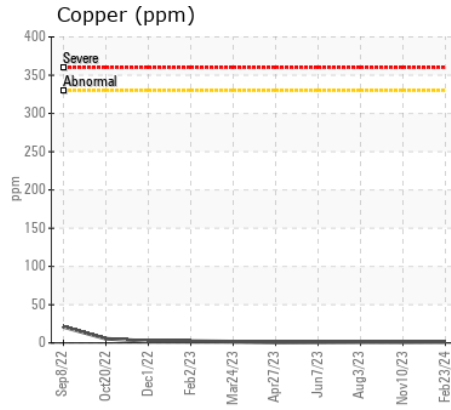
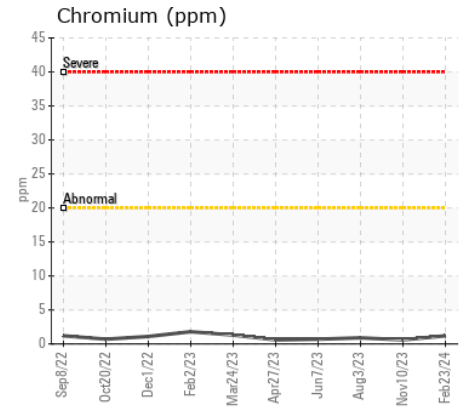
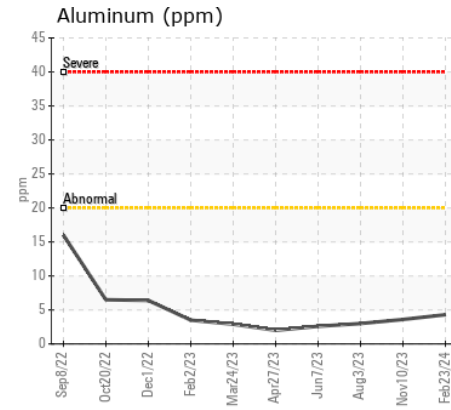
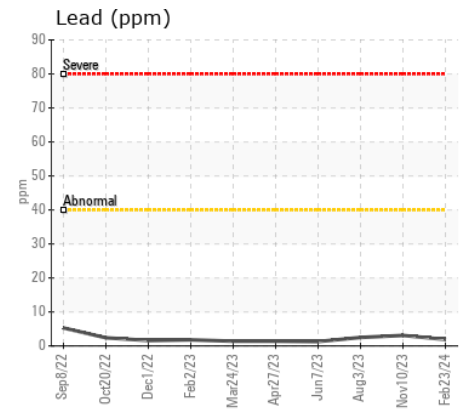
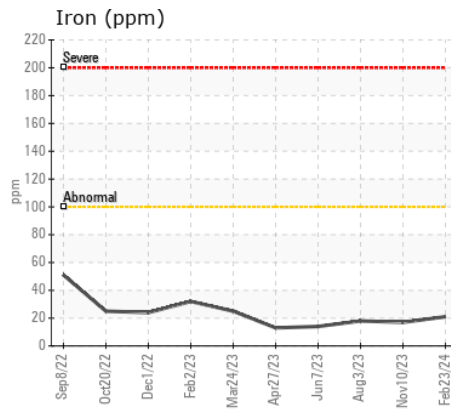
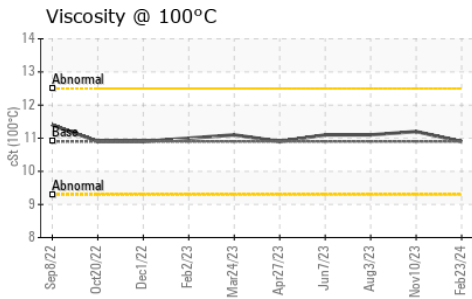
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	4	5
Potassium	ppm	ASTM D5185(m)	>20	2	2	3
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.3	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	8.7	9.4	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.7	21.1	21.0
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)		2	2	2
Boron	ppm	ASTM D5185(m)	250	6	4	5
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	61	61	61
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	450	973	980	979
Calcium	ppm	ASTM D5185(m)	3000	1088	1089	1087
Phosphorus	ppm	ASTM D5185(m)	1150	1017	976	1050
Zinc	ppm	ASTM D5185(m)	1350	1207	1213	1190
Sulfur	ppm	ASTM D5185(m)	4250	2574	2347	2324
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.5	17.7	16.3
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	10.9	11.2	11.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0892068
Lab Number : 02618862
Unique Number : 5735972
Test Package : MOB 1
Received : 29 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 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.