



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		WC0934974	WC0935041	WC0892068
Sample Date		Client Info		18 Jun 2024	23 May 2024	23 Feb 2024
Machine Age	mls	Client Info		262296	26461	335829
Oil Age	mls	Client Info		15545	26461	28600
Filter Age	mls	Client Info		15545	26461	28600
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	13	47	21
Chromium	ppm	ASTM D5185(m)	>20	1	3	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	2	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	9	4
Lead	ppm	ASTM D5185(m)	>40	<1	2	2
Copper	ppm	ASTM D5185(m)	>330	<1	3	1
Tin	ppm	ASTM D5185(m)	>15	0	2	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

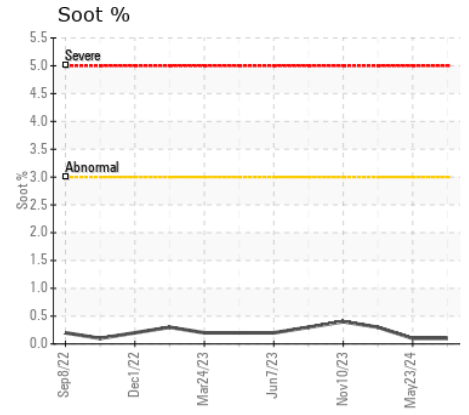
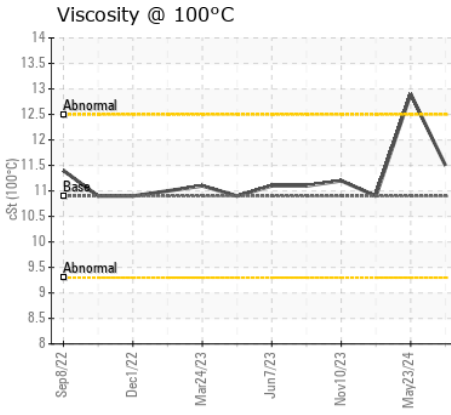
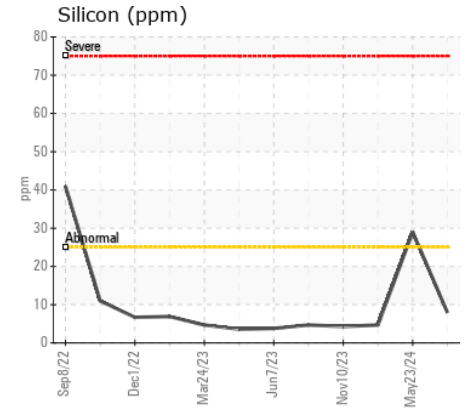
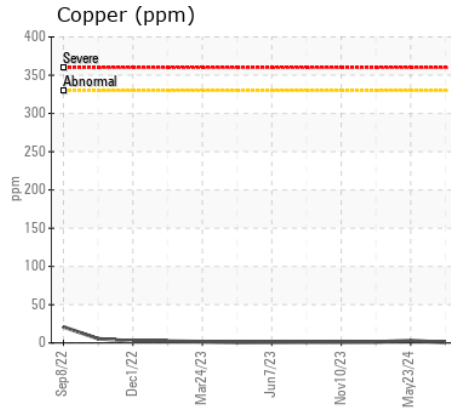
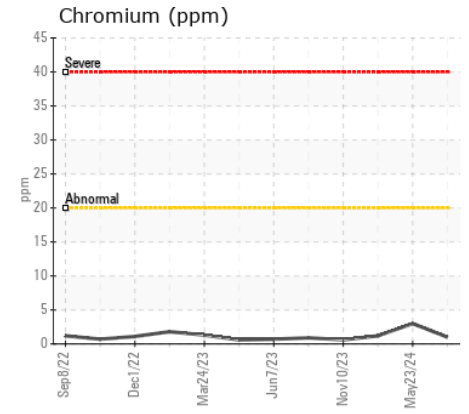
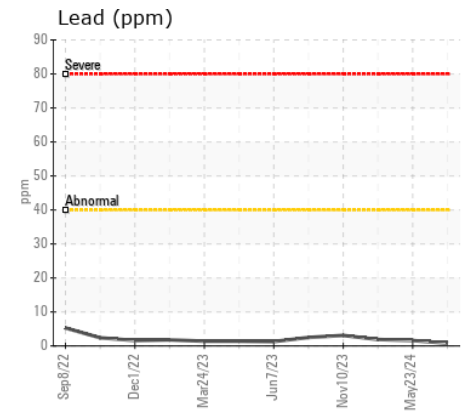
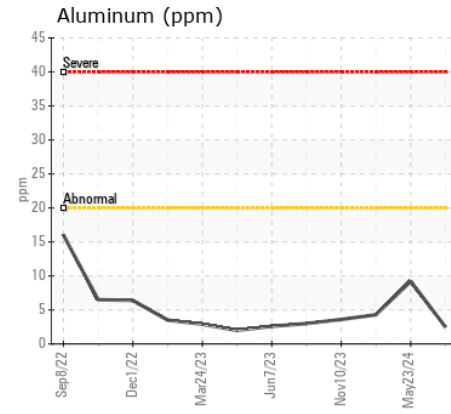
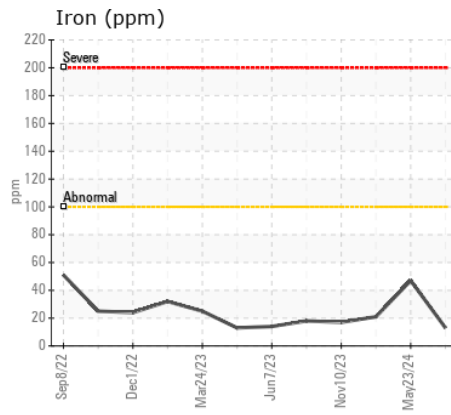
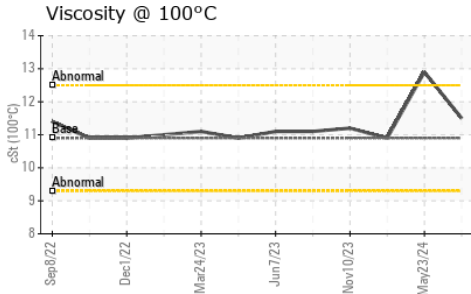
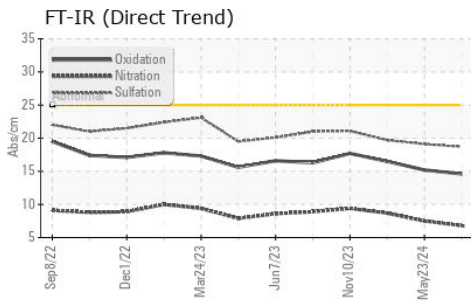
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	29	5
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		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.1	0.3
Nitration	Abs/cm	ASTM D7624*	>20	6.8	7.5	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	19.1	19.7
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	4	2
Boron	ppm	ASTM D5185(m)	250	5	10	6
Barium	ppm	ASTM D5185(m)	10	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	58	62	61
Manganese	ppm	ASTM D5185(m)		<1	1	0
Magnesium	ppm	ASTM D5185(m)	450	944	947	973
Calcium	ppm	ASTM D5185(m)	3000	1029	1063	1088
Phosphorus	ppm	ASTM D5185(m)	1150	978	955	1017
Zinc	ppm	ASTM D5185(m)	1350	1169	1162	1207
Sulfur	ppm	ASTM D5185(m)	4250	2483	2412	2574
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.6	15.2	16.5
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.5	▲ 12.9	10.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0934974 **Received** : 05 Jul 2024
Lab Number : 02645786 **Tested** : 05 Jul 2024
Unique Number : 5803325 **Diagnosed** : 05 Jul 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.