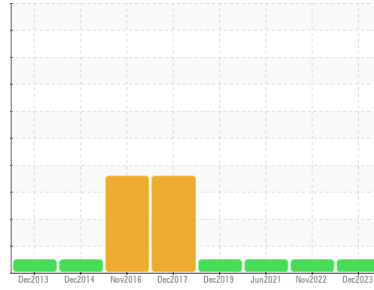




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
IVECO-FIAT W0588

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (15 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0836737	WC0709791	WC0561091
Sample Date	Client Info		19 Dec 2023	15 Nov 2022	21 Jun 2021
Machine Age	mths	Client Info	53	37	0
Oil Age	mths	Client Info	39	23	30
Oil Changed	Client Info		Not Chngd	Not Chngd	N/A
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	2	2	3
Chromium	ppm	ASTM D5185(m) >20	0	0	0
Nickel	ppm	ASTM D5185(m) >4	0	0	<1
Titanium	ppm	ASTM D5185(m)	0	<1	0
Silver	ppm	ASTM D5185(m) >3	0	0	0
Aluminum	ppm	ASTM D5185(m) >20	1	<1	1
Lead	ppm	ASTM D5185(m) >40	3	2	3
Copper	ppm	ASTM D5185(m) >330	6	4	6
Tin	ppm	ASTM D5185(m) >15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)	0	<1	<1
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 250	3	4	5
Barium	ppm	ASTM D5185(m) 10	1	1	<1
Molybdenum	ppm	ASTM D5185(m) 100	4	4	27
Manganese	ppm	ASTM D5185(m)	0	0	<1
Magnesium	ppm	ASTM D5185(m) 450	80	80	561
Calcium	ppm	ASTM D5185(m) 3000	2110	2179	1471
Phosphorus	ppm	ASTM D5185(m) 1150	853	908	1001
Zinc	ppm	ASTM D5185(m) 1350	980	968	1131
Sulfur	ppm	ASTM D5185(m) 4250	3173	3053	2952
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

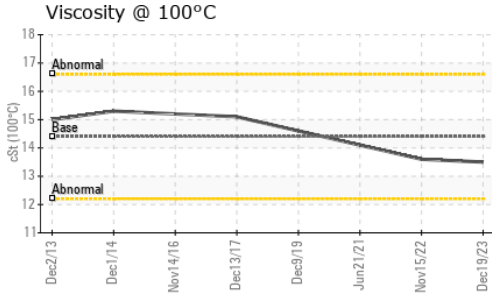
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	2	2	4
Sodium	ppm	ASTM D5185(m) >158	2	2	3
Potassium	ppm	ASTM D5185(m) >20	<1	1	1

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0	0	0
Nitration	Abs/cm	ASTM D7624* >20	5.4	5.8	5.7
Sulfation	Abs/.1mm	ASTM D7415* >30	16.3	17.6	16.6



OIL ANALYSIS REPORT

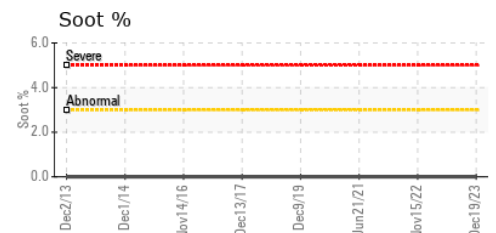
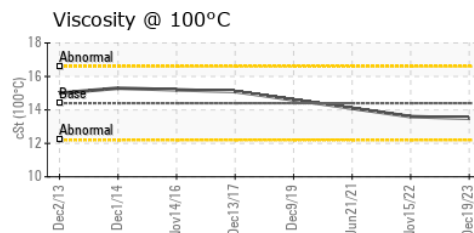
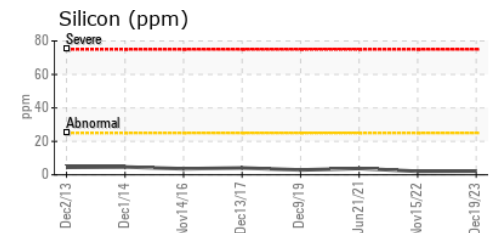
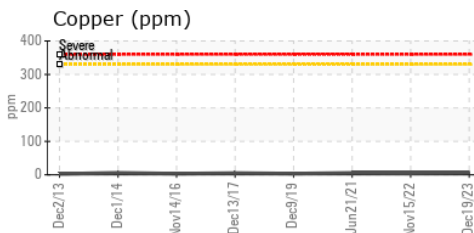
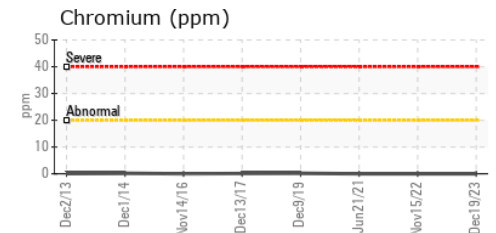
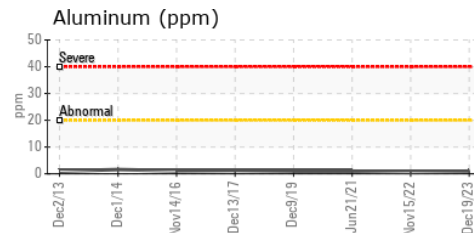
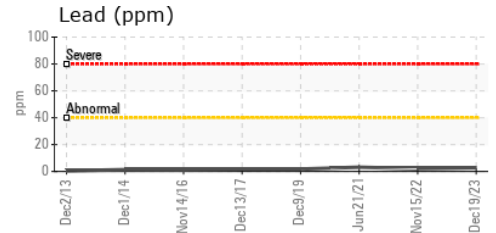
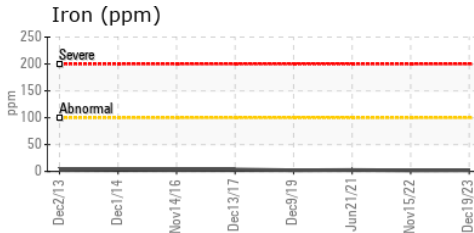


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	12.1	12.9	15.2

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	---	NONE
Yellow Metal	scalar	Visual*	NONE	---	NONE
Precipitate	scalar	Visual*	NONE	---	NONE
Silt	scalar	Visual*	NONE	---	VLITE
Debris	scalar	Visual*	NONE	---	NONE
Sand/Dirt	scalar	Visual*	NONE	---	NONE
Appearance	scalar	Visual*	NORML	---	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.5	13.6	14.1

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0836737 **Received** : 05 Jan 2024
Lab Number : 02606705 **Diagnosed** : 05 Jan 2024
Unique Number : 5707791 **Diagnostician** : 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.