



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
3387R
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL06214170	IL0034347	---
Sample Date		Client Info		10 May 2024	09 Dec 2023	---
Machine Age	mls	Client Info		27461	14438	---
Oil Age	mls	Client Info		13027	15000	---
Filter Age	mls	Client Info		0	15000	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	ATTENTION	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	58	82	---
Chromium	ppm	ASTM D5185m	>20	2	2	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	5	6	---
Lead	ppm	ASTM D5185m	>40	0	1	---
Copper	ppm	ASTM D5185m	>330	14	86	---
Tin	ppm	ASTM D5185m	>15	1	2	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

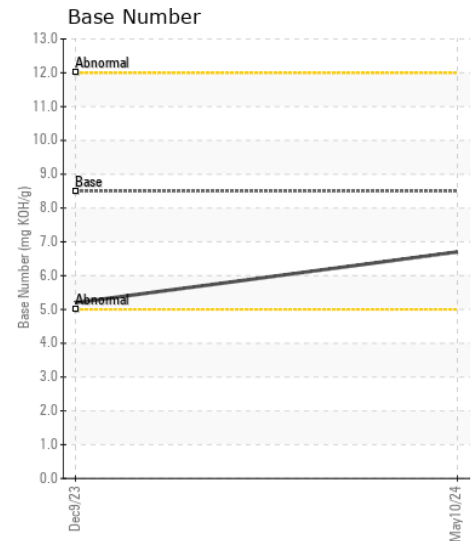
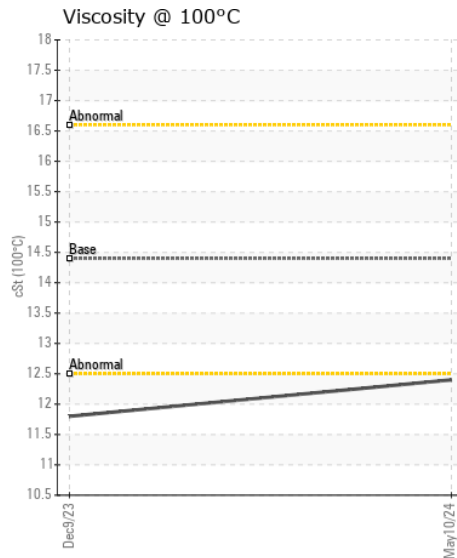
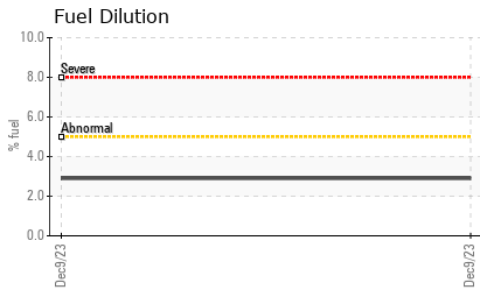
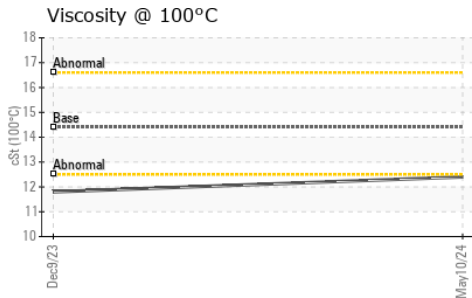
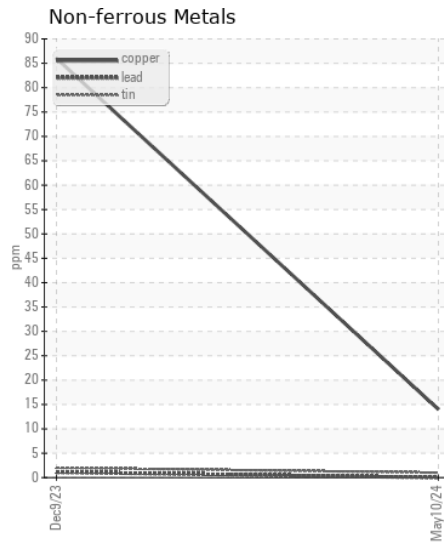
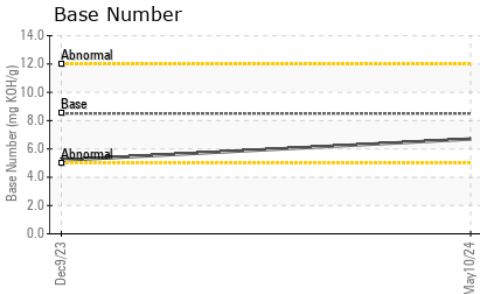
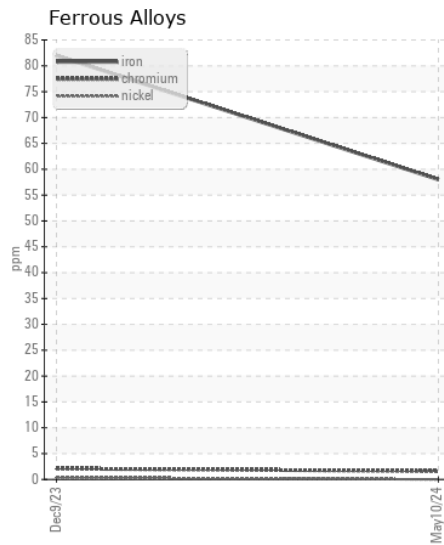
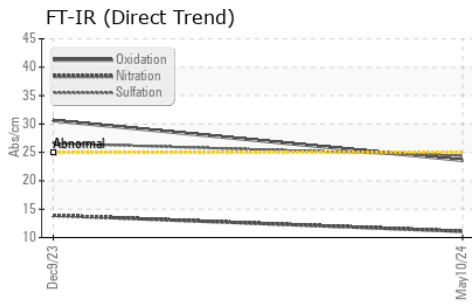
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	9	28	---
Potassium	ppm	ASTM D5185m	>20	11	8	---
Fuel	%	ASTM D3524	>5	<1.0	▲ 2.9	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.9	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	11.1	13.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	26.6	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	3	9	---
Boron	ppm	ASTM D5185m	250	6	23	---
Barium	ppm	ASTM D5185m	10	0	5	---
Molybdenum	ppm	ASTM D5185m	100	58	48	---
Manganese	ppm	ASTM D5185m		2	6	---
Magnesium	ppm	ASTM D5185m	450	934	794	---
Calcium	ppm	ASTM D5185m	3000	1090	1192	---
Phosphorus	ppm	ASTM D5185m	1150	972	692	---
Zinc	ppm	ASTM D5185m	1350	1173	845	---
Sulfur	ppm	ASTM D5185m	4250	3328	2050	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.6	30.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.7	5.2	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.4	● 11.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL06214170
Lab Number : 06214170
Unique Number : 11087034
Test Package : FLEET (Additional Tests: FuelDilution)

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 CHICAGO, IL
 US 60638
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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