



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
132305
 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		WC0929228	WC0842010	---
Sample Date		Client Info		20 May 2024	12 Jan 2024	---
Machine Age	hrs	Client Info		62583	48777	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	MARGINAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	25	56	---
Chromium	ppm	ASTM D5185m	>20	2	3	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
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	0	---
Copper	ppm	ASTM D5185m	>330	1	12	---
Tin	ppm	ASTM D5185m	>15	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

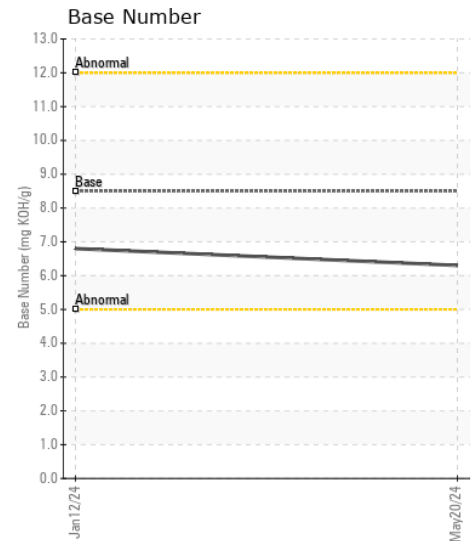
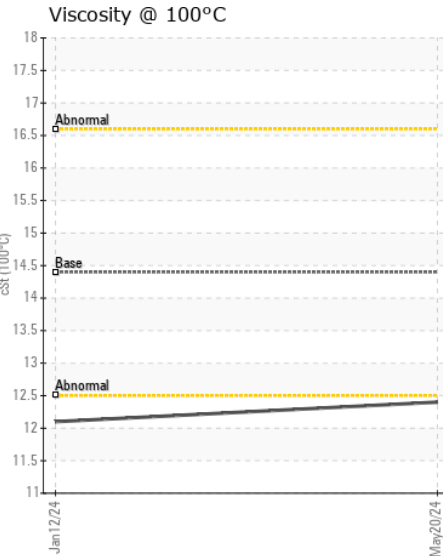
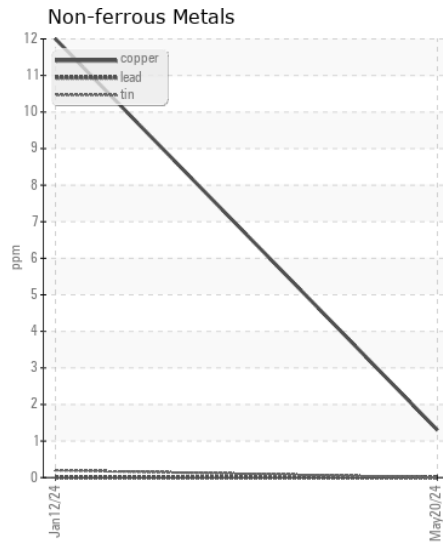
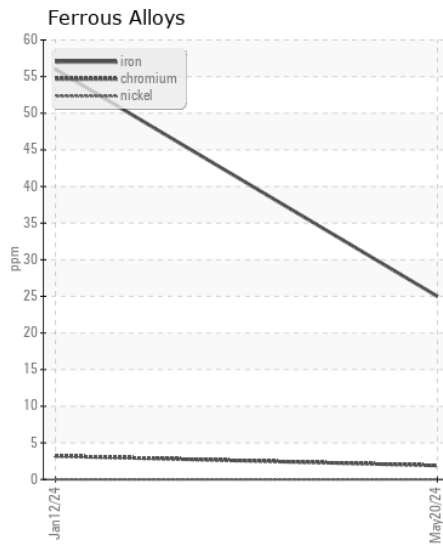
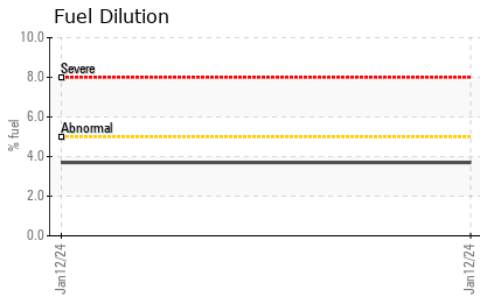
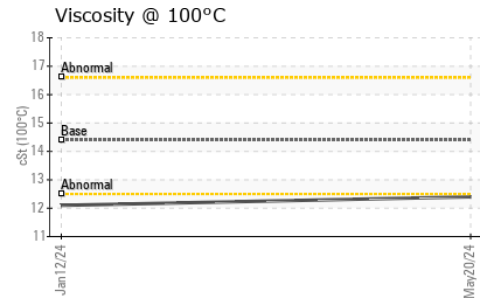
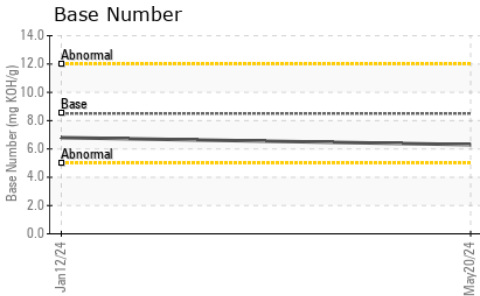
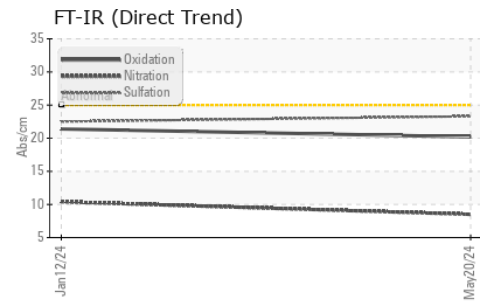
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	9	---
Potassium	ppm	ASTM D5185m	>20	6	10	---
Fuel	%	ASTM D3524	>5	<1.0	▲ 3.7	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	8.5	10.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	22.5	---
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	2	3	---
Boron	ppm	ASTM D5185m	250	245	7	---
Barium	ppm	ASTM D5185m	10	<1	<1	---
Molybdenum	ppm	ASTM D5185m	100	76	59	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m	450	487	869	---
Calcium	ppm	ASTM D5185m	3000	1343	1019	---
Phosphorus	ppm	ASTM D5185m	1150	995	861	---
Zinc	ppm	ASTM D5185m	1350	1206	1053	---
Sulfur	ppm	ASTM D5185m	4250	3536	2617	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	21.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.3	6.8	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.4	12.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0929228 **Received** : 05 Jul 2024
Lab Number : 06229483 **Tested** : 09 Jul 2024
Unique Number : 11112976 **Diagnosed** : 09 Jul 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution)

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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)