



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
19067
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

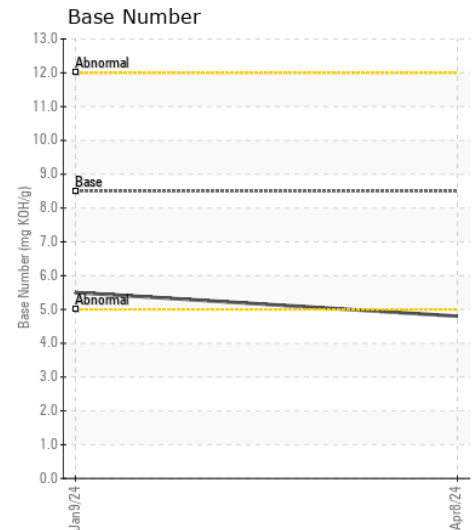
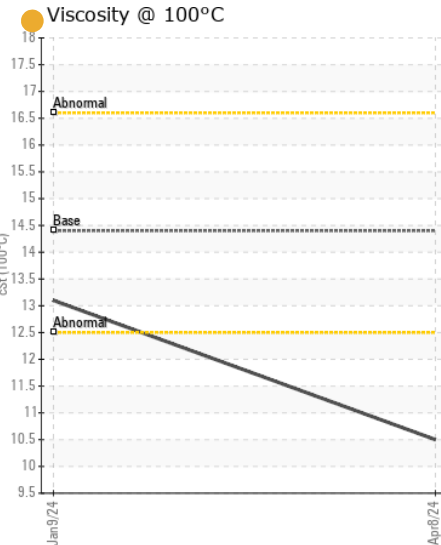
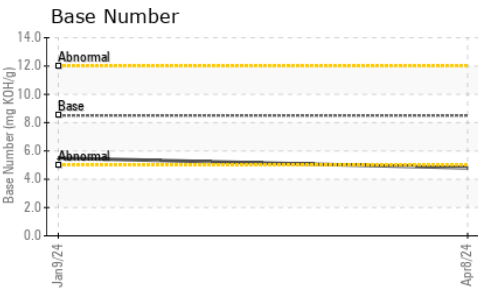
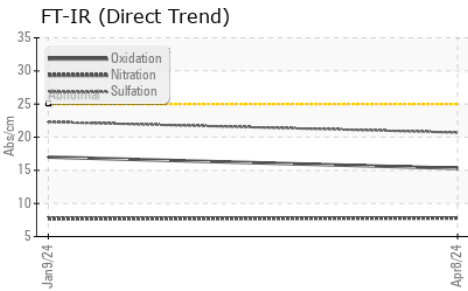
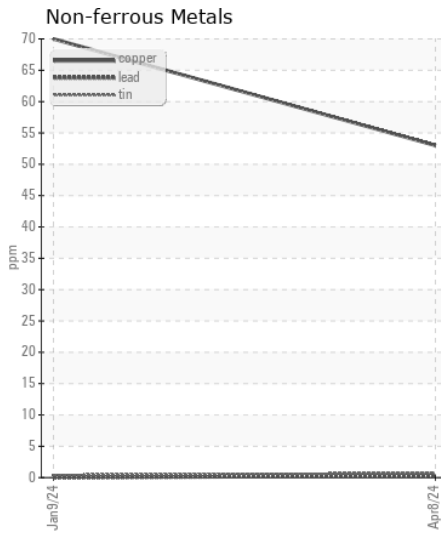
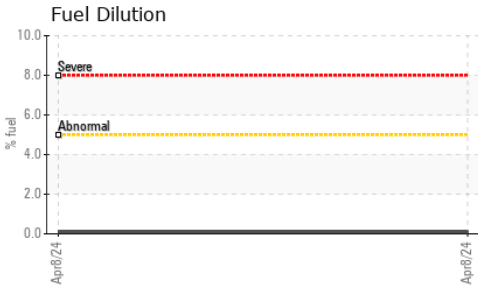
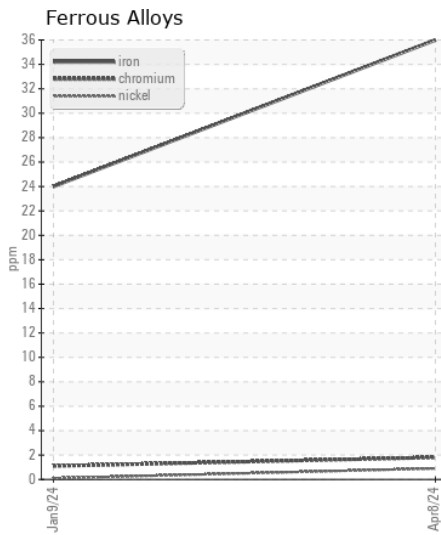
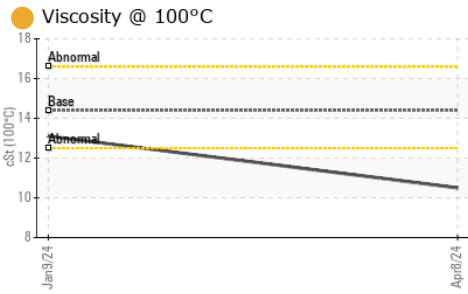
CONTAMINATION

Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0906502	WC0871965	---
Sample Date		Client Info		08 Apr 2024	09 Jan 2024	---
Machine Age	mls	Client Info		147294	98887	---
Oil Age	mls	Client Info		48407	37000	---
Filter Age	mls	Client Info		48407	37000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ATTENTION	NORMAL	---
Iron	ppm	ASTM D5185m	>100	36	24	---
Chromium	ppm	ASTM D5185m	>20	2	1	---
Nickel	ppm	ASTM D5185m	>4	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>20	7	9	---
Lead	ppm	ASTM D5185m	>40	<1	0	---
Copper	ppm	ASTM D5185m	>330	53	70	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	8	4	---
Potassium	ppm	ASTM D5185m	>20	16	16	---
Fuel	%	ASTM D3524	>5	0.1	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.6	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	22.3	---
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	---
Sodium	ppm	ASTM D5185m	>216	0	0	---
Boron	ppm	ASTM D5185m	250	77	177	---
Barium	ppm	ASTM D5185m	10	<1	3	---
Molybdenum	ppm	ASTM D5185m	100	194	83	---
Manganese	ppm	ASTM D5185m		1	<1	---
Magnesium	ppm	ASTM D5185m	450	419	498	---
Calcium	ppm	ASTM D5185m	3000	1275	1289	---
Phosphorus	ppm	ASTM D5185m	1150	850	879	---
Zinc	ppm	ASTM D5185m	1350	987	1221	---
Sulfur	ppm	ASTM D5185m	4250	2249	2515	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	17.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.8	5.5	---
Visc @ 100°C	cSt	ASTM D445	14.4	10.5	13.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0906502 **Received** : 22 Apr 2024
Lab Number : 06156713 **Tested** : 25 Apr 2024
Unique Number : 10992136 **Diagnosed** : 25 Apr 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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)