



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	MARGINAL

Machine Id
FREIGHTLINER 2127
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- GAL)

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.

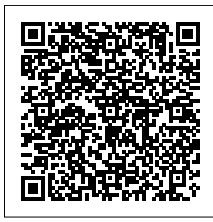
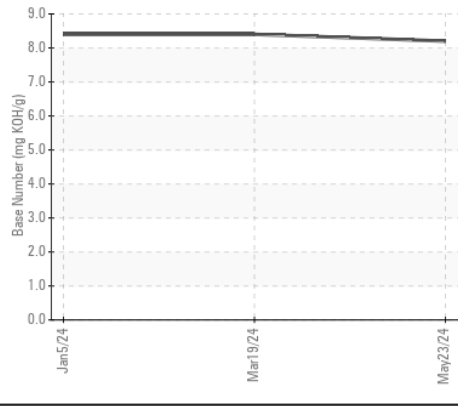
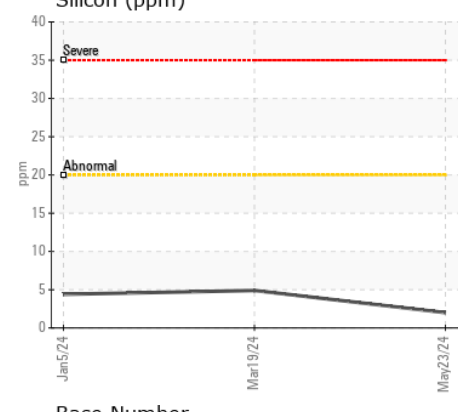
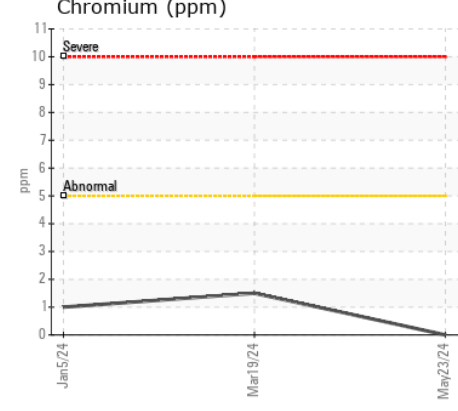
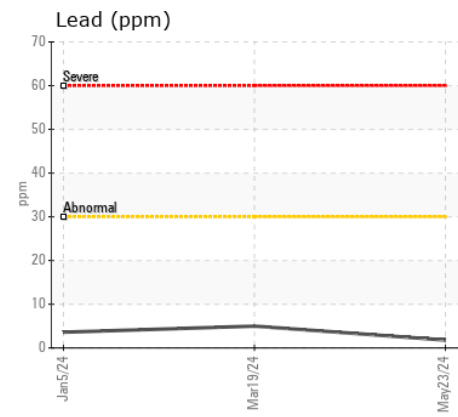
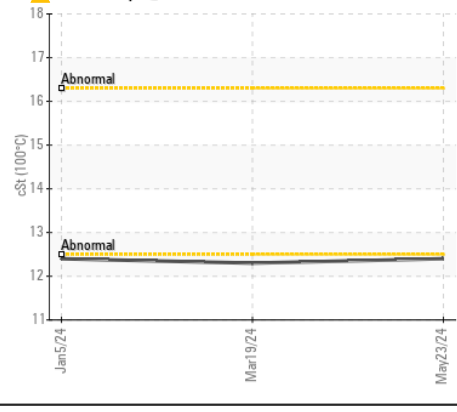
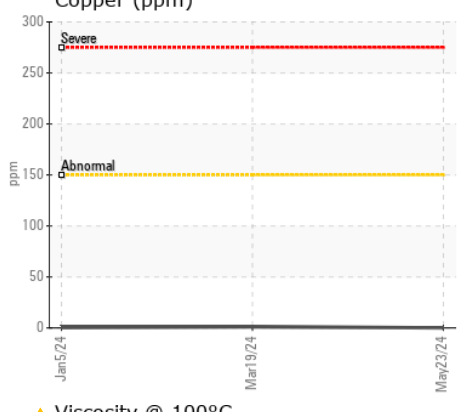
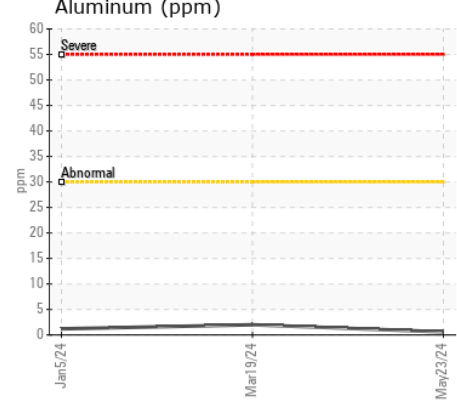
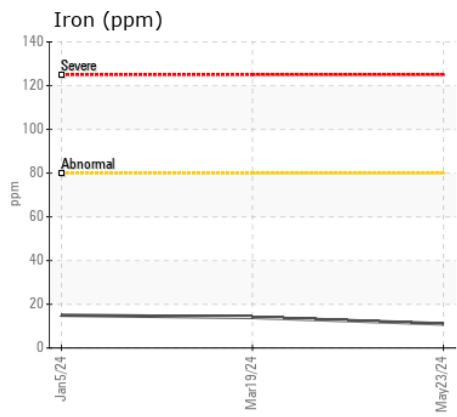
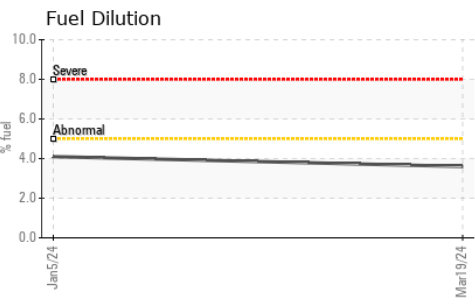
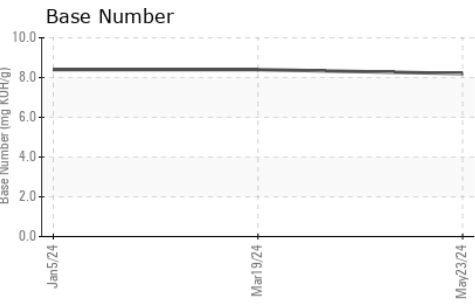
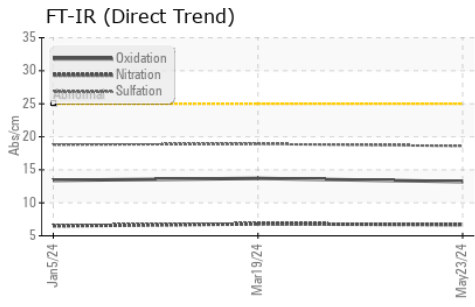
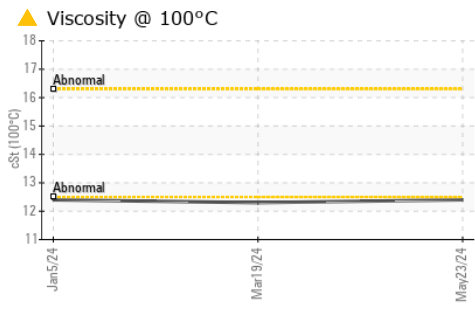
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0917220	WC0906191	WC0878828
Sample Date		Client Info		23 May 2024	19 Mar 2024	05 Jan 2024
Machine Age	mls	Client Info		262854	253145	242749
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>80	11	14	15
Chromium	ppm	ASTM D5185m	>5	0	2	1
Nickel	ppm	ASTM D5185m	>2	0	1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	<1	2	1
Lead	ppm	ASTM D5185m	>30	2	5	4
Copper	ppm	ASTM D5185m	>150	0	1	<1
Tin	ppm	ASTM D5185m	>5	0	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	2	5	4
Potassium	ppm	ASTM D5185m	>20	1	4	2
Fuel	%	ASTM D3524	>5	<1.0	▲ 3.6	▲ 4.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.9	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.8	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.9	18.8
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>118	0	<1	1
Boron	ppm	ASTM D5185m		2	1	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		52	57	53
Manganese	ppm	ASTM D5185m		0	1	<1
Magnesium	ppm	ASTM D5185m		901	883	950
Calcium	ppm	ASTM D5185m		1049	1029	1021
Phosphorus	ppm	ASTM D5185m		962	1028	988
Zinc	ppm	ASTM D5185m		1154	1150	1143
Sulfur	ppm	ASTM D5185m		3487	3218	2911
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	13.7	13.4
Base Number (BN)	mg KOH/g	ASTM D2896		8.2	8.4	8.4
Visc @ 100°C	cSt	ASTM D445		▲ 12.4	▲ 12.3	▲ 12.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0917220 **Received** : 19 Jun 2024
Lab Number : 06214274 **Tested** : 21 Jun 2024
Unique Number : 11087138 **Diagnosed** : 21 Jun 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel, TBN)

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 161 BUILDERS BLVD
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 US 28301
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 bryanvanniman@fayblock.com
 T: (800)326-9198
 F:

Certificate L2367
 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)