



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	ATTENTION

Machine Id
FREIGHTLINER 55284
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

Check for low coolant level. We advise that you check for the source of the coolant leak. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

Sodium and/or potassium levels are high.

FLUID CONDITION

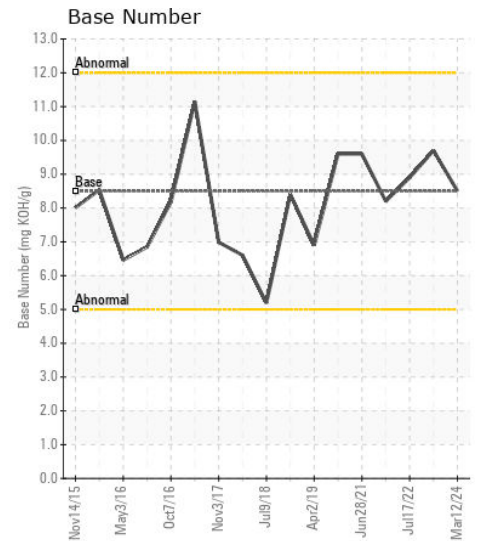
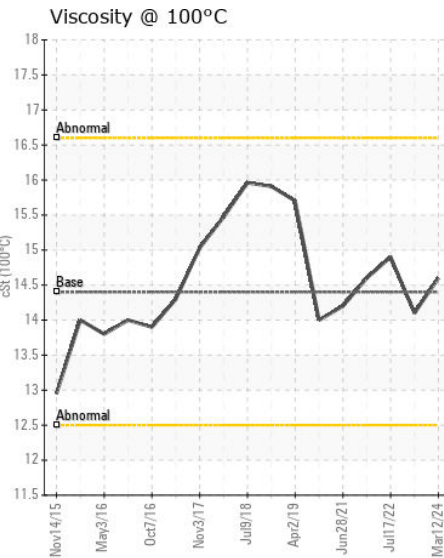
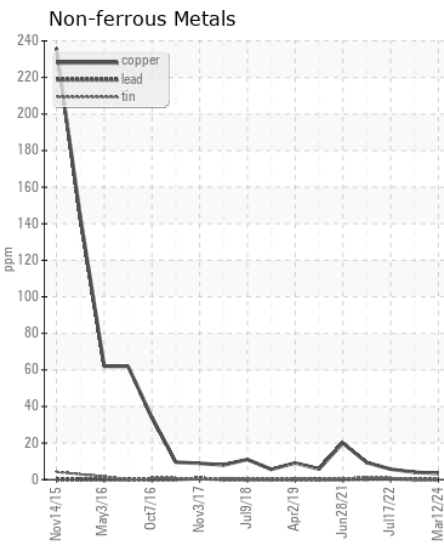
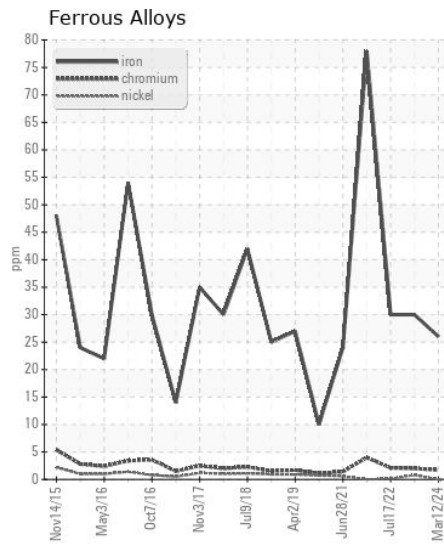
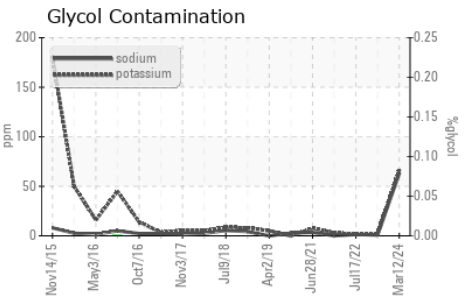
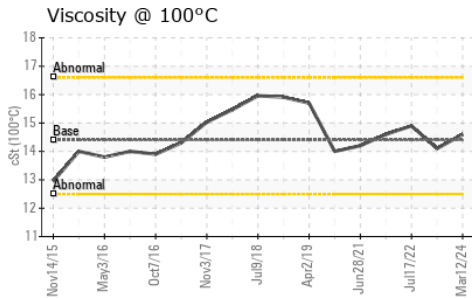
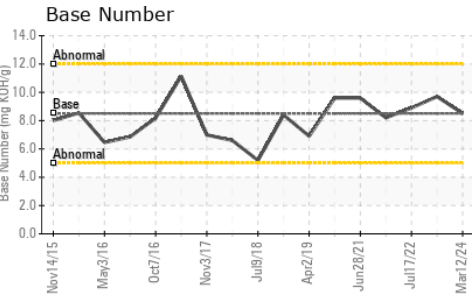
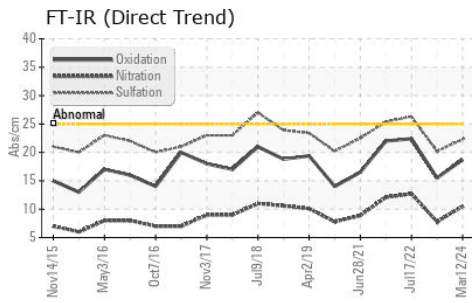
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0912555	WC0698673	WC0698643
Sample Date		Client Info		12 Mar 2024	13 Jan 2023	17 Jul 2022
Machine Age	mls	Client Info		583925	525892	520714
Oil Age	mls	Client Info		0	0	25000
Filter Age	mls	Client Info		0	0	25000
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				ATTENTION	NORMAL	NORMAL

Iron	ppm	ASTM D5185m	>65	26	30	30
Chromium	ppm	ASTM D5185m	>5	2	2	2
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Titanium	ppm	ASTM D5185m	>5	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>35	11	12	18
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>180	3	4	6
Tin	ppm	ASTM D5185m	>8	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>15	4	6	6
Potassium	ppm	ASTM D5185m	>20	66	2	1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.8	0.5	1
Nitration	Abs/cm	*ASTM D7624	>20	10.5	7.8	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	20.2	26.3
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	>158	63	<1	1
Boron	ppm	ASTM D5185m	250	0	4	8
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	68	69	69
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	1082	1077	1027
Calcium	ppm	ASTM D5185m	3000	1177	1279	1229
Phosphorus	ppm	ASTM D5185m	1150	1122	1140	1095
Zinc	ppm	ASTM D5185m	1350	1343	1418	1355
Sulfur	ppm	ASTM D5185m	4250	3691	4073	3553
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	15.5	22.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.5	9.7	8.9
Visc @ 100°C	cSt	ASTM D445	14.4	14.6	14.1	14.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0912555 **Received** : 24 May 2024
Lab Number : 06191546 **Tested** : 30 May 2024
Unique Number : 11048298 **Diagnosed** : 30 May 2024 - Sean Felton
Test Package : FLEET (Additional Tests: Glycol)

SALEM NATIONALEASE CORPORATION
 198 PARK PLAZA DRIVE
 WINSTON SALEM, NC
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Contact: Audrey Hopkins
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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)

F : x: