MOB 1 WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 676
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (17 QTS)

RECOMMENDATION

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

WEAR

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

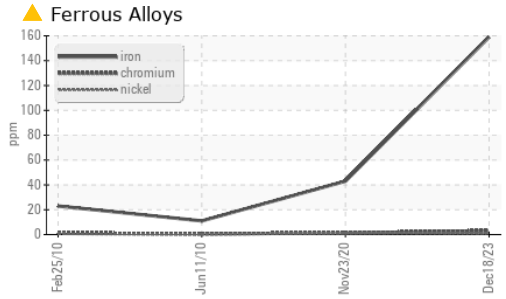
CONTAMINATION

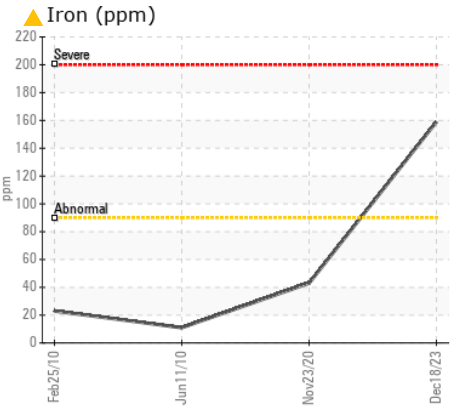
There is no indication of any contamination in the oil.

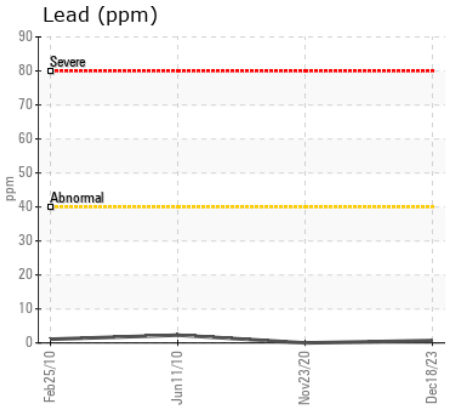
FLUID CONDITION

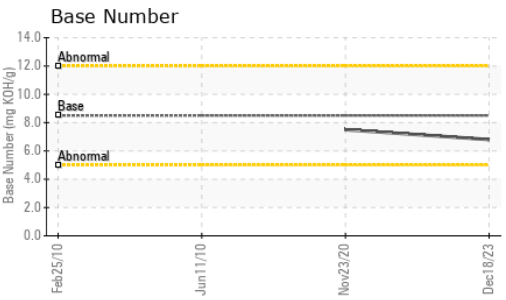
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

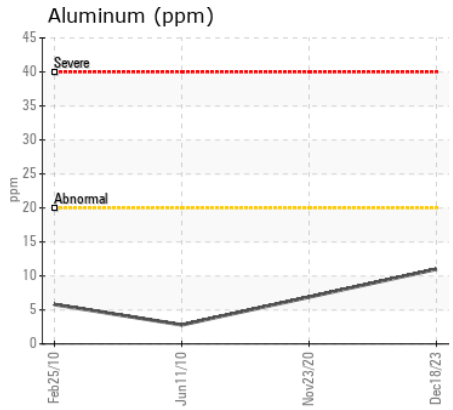
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0870664	WC0527406	WCM1193238
Sample Date		Client Info		18 Dec 2023	23 Nov 2020	11 Jun 2010
Machine Age	mls	Client Info		249236	0	34342
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>90	▲ 159	43	11
Chromium	ppm	ASTM D5185m	>20	3	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	11	7	3
Lead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	4	<1	2
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	22	4	4
Potassium	ppm	ASTM D5185m	>20	8	6	0
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	2	0.7	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.5	11.1	4.
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	19.8	14.
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	14	10	2
Boron	ppm	ASTM D5185m	250	26	39	3
Barium	ppm	ASTM D5185m	10	4	0	0
Molybdenum	ppm	ASTM D5185m	100	92	84	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	29	97	25
Calcium	ppm	ASTM D5185m	3000	2097	2296	2289
Phosphorus	ppm	ASTM D5185m	1150	955	1037	997
Zinc	ppm	ASTM D5185m	1350	1145	1186	1168
Sulfur	ppm	ASTM D5185m	4250	3702	3016	3688
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	14.6	12.
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.8	7.5	---
Visc @ 100°C	cSt	ASTM D445	14.4	15.2	14.6	14.11

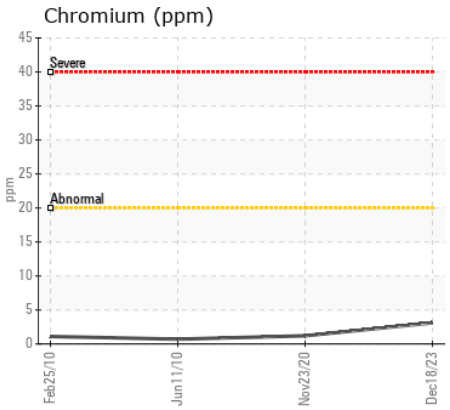


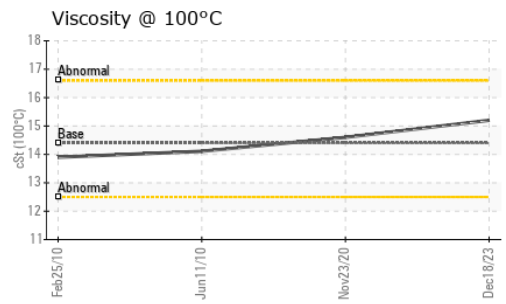


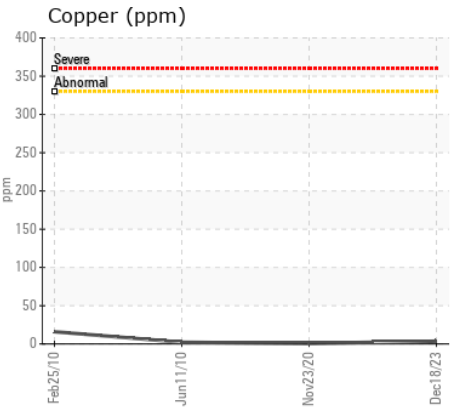


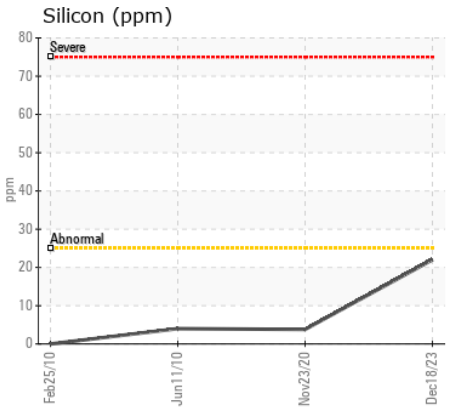


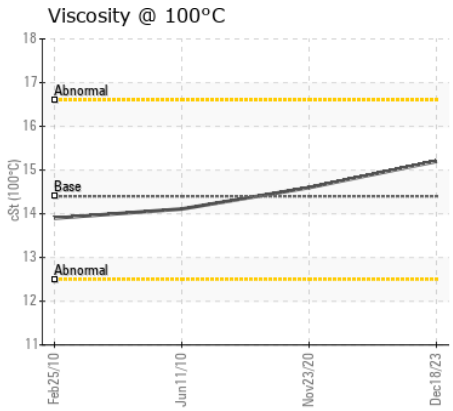


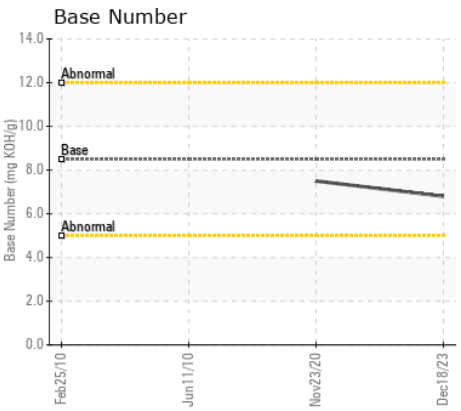












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0870664 **Recieved** : 12 Jan 2024
Lab Number : 06059826 **Diagnosed** : 16 Jan 2024
Unique Number : 10831208 **Diagnostician** : Don Baldridge
Test Package : MOB 1 (Additional Tests: TBN)

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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