



# LUBE PLUS+

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**FREIGHTLINER H-4**  
Component  
**Diesel Engine**  
Fluid  
**10W30 DURON SEMI (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LP0001334</b>	LP0001564	LP0001111
Sample Date		Client Info		<b>26 Dec 2023</b>	26 Dec 2023	13 Oct 2023
Machine Age	hrs	Client Info		<b>2233</b>	2233	1777
Oil Age	hrs	Client Info		<b>400</b>	410	400
Filter Age	hrs	Client Info		<b>400</b>	1823	400
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	<b>35</b>	18	16
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>21</b>	5	8
Lead	ppm	ASTM D5185m	>30	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>150	<b>1</b>	1	1
Tin	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

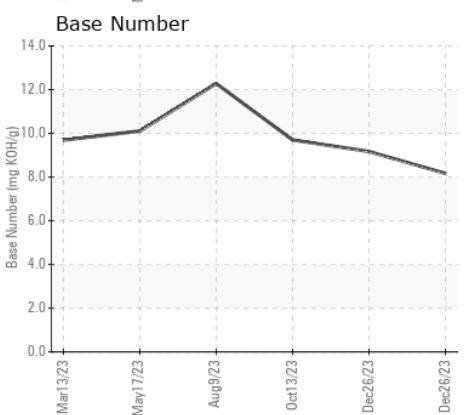
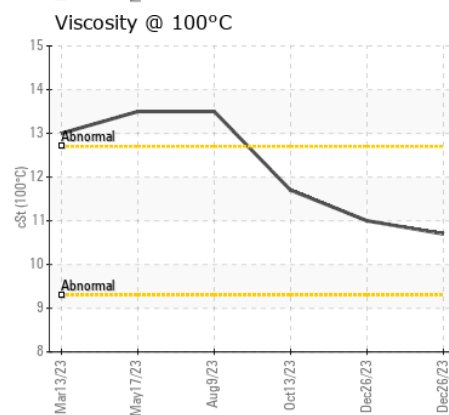
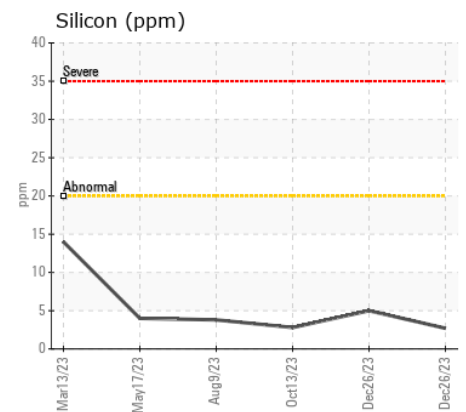
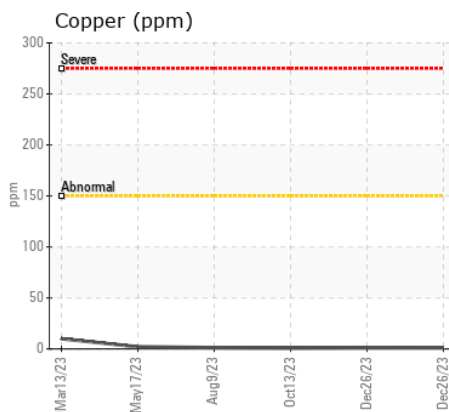
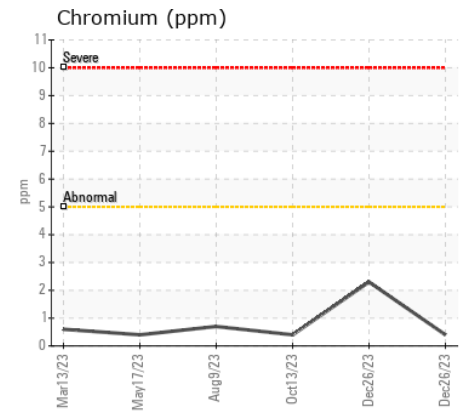
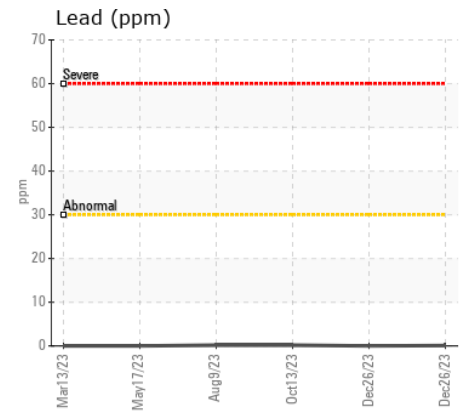
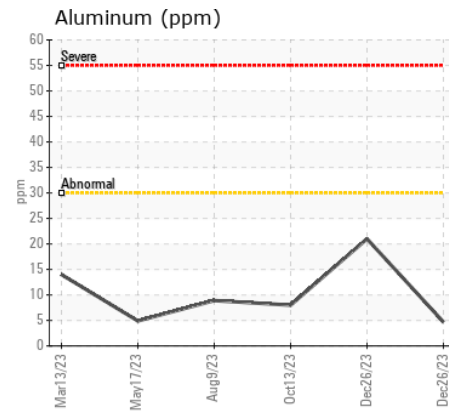
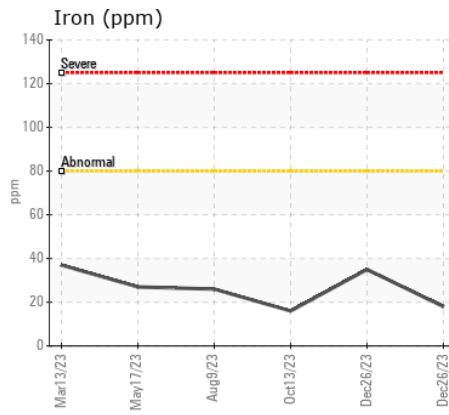
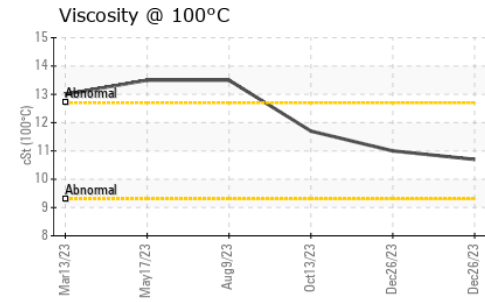
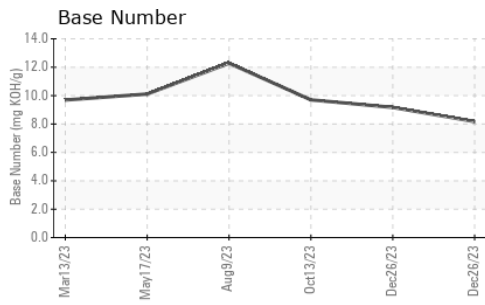
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>36</b>	10	22
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.9</b>	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.3</b>	8.4	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.1</b>	19.3	19.5
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>2</b>	2	<1
Boron	ppm	ASTM D5185m		<b>13</b>	13	2
Barium	ppm	ASTM D5185m		<b>0</b>	0	10
Molybdenum	ppm	ASTM D5185m		<b>58</b>	59	60
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>905</b>	925	893
Calcium	ppm	ASTM D5185m		<b>984</b>	1013	1014
Phosphorus	ppm	ASTM D5185m		<b>1012</b>	1020	1037
Zinc	ppm	ASTM D5185m		<b>1226</b>	1235	1234
Sulfur	ppm	ASTM D5185m		<b>2892</b>	2980	3658
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.5</b>	16.2	15.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.17</b>	9.17	9.70
Visc @ 100°C	cSt	ASTM D445		<b>10.7</b>	11.0	11.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LP0001334  
**Lab Number** : 06084348  
**Unique Number** : 10871793  
**Test Package** : MOB 2  
**Received** : 08 Feb 2024  
**Tested** : 09 Feb 2024  
**Diagnosed** : 09 Feb 2024 - Wes Davis

**SELECT DEMO**  
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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)