



LUBE PLUS+

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



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		LP0001945	LP0001216	LP0001334
Sample Date		Client Info		24 Jun 2024	03 Apr 2024	26 Dec 2023
Machine Age	hrs	Client Info		3460	2930	2233
Oil Age	hrs	Client Info		530	690	400
Filter Age	hrs	Client Info		530	690	400
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	22	27	35
Chromium	ppm	ASTM D5185m	>5	0	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	5	21
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>150	0	2	1
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

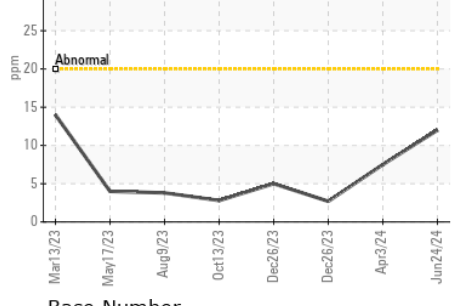
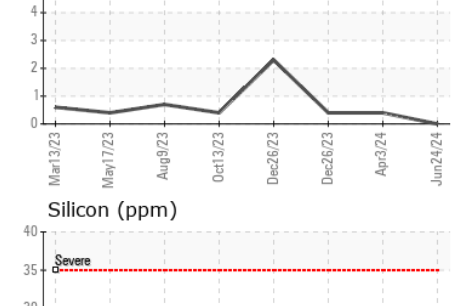
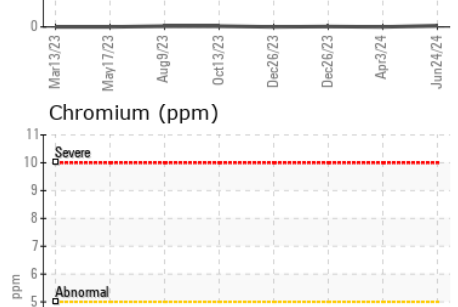
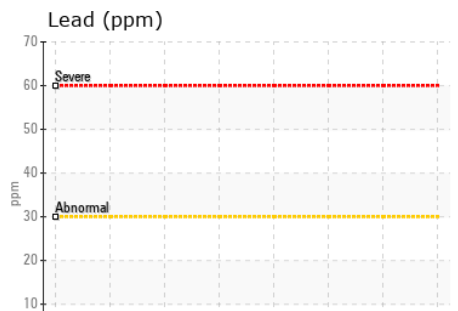
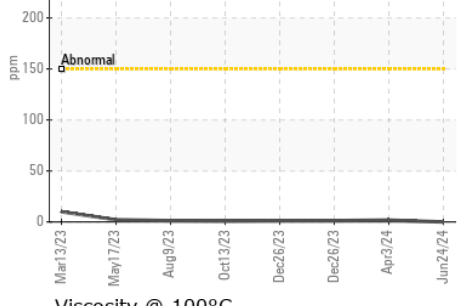
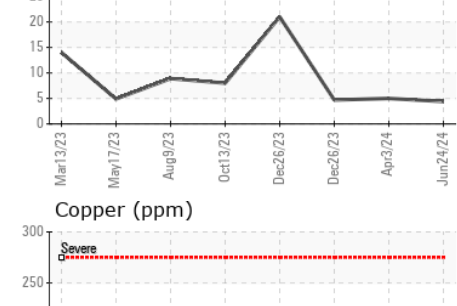
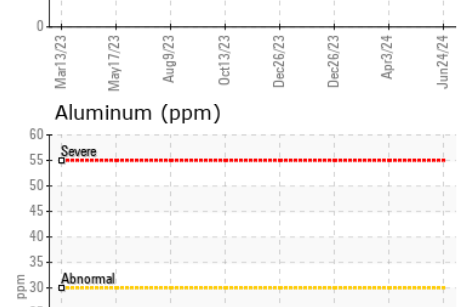
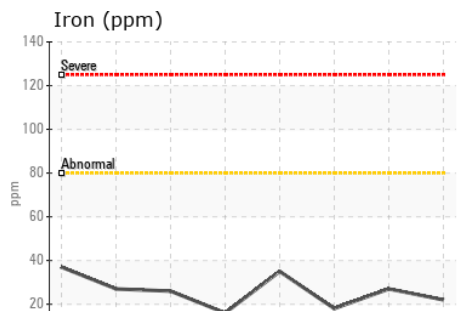
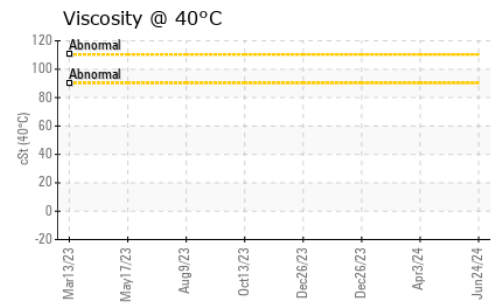
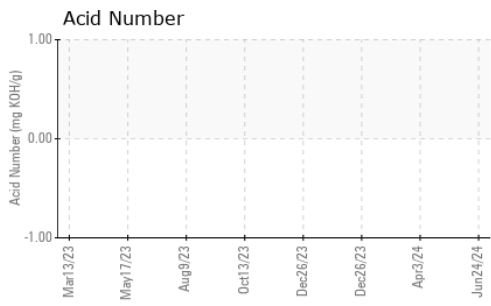
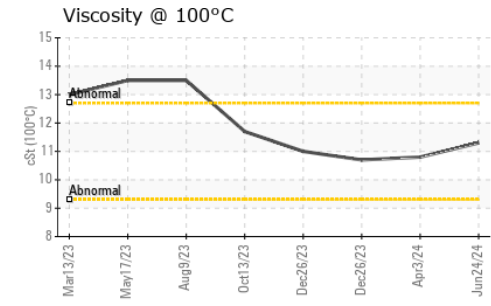
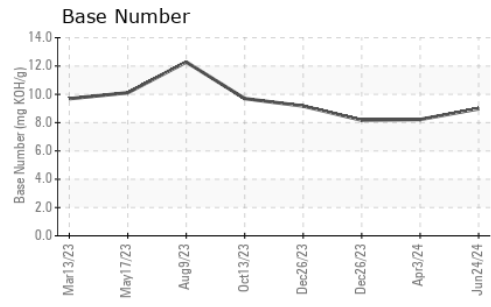
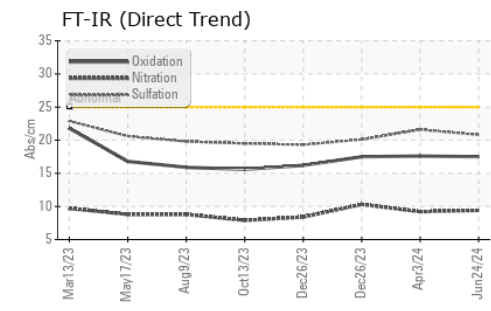
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	12	8	5
Potassium	ppm	ASTM D5185m	>20	6	10	36
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.6	0.9
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.2	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	21.6	20.1
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

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		0	2	2
Boron	ppm	ASTM D5185m		5	6	13
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		61	60	58
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1024	966	905
Calcium	ppm	ASTM D5185m		1154	1118	984
Phosphorus	ppm	ASTM D5185m		1119	994	1012
Zinc	ppm	ASTM D5185m		1392	1244	1226
Sulfur	ppm	ASTM D5185m		3685	3388	2892
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	17.6	17.5
Base Number (BN)	mg KOH/g	ASTM D2896		8.98	8.22	8.17
Visc @ 100°C	cSt	ASTM D445		11.3	10.8	10.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001945 **Received** : 28 Jun 2024
Lab Number : 06224087 **Tested** : 02 Jul 2024
Unique Number : 11102284 **Diagnosed** : 02 Jul 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KV40, TAN Man)

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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