



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
FREIGHTLINER T-16
Component
Front Diesel Engine
Fluid
SAFETY-KLEEN ECOPOWER 15W40 CJ-4 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0922828	WC0550249	WC0438534
Sample Date		Client Info		01 May 2024	06 Dec 2022	01 Mar 2021
Machine Age	hrs	Client Info		251080	214143	183162
Oil Age	hrs	Client Info		15475	12385	12361
Filter Age	hrs	Client Info		15475	12385	12361
Oil Changed		Client Info		Not Changed	Not Changed	Changed
Filter Changed		Client Info		Not Changed	Not Changed	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>65	28	40	13
Chromium	ppm	ASTM D5185(m)	>5	2	2	1
Nickel	ppm	ASTM D5185(m)	>3	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>35	10	13	5
Lead	ppm	ASTM D5185(m)	>10	0	<1	0
Copper	ppm	ASTM D5185(m)	>180	4	7	2
Tin	ppm	ASTM D5185(m)	>8	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

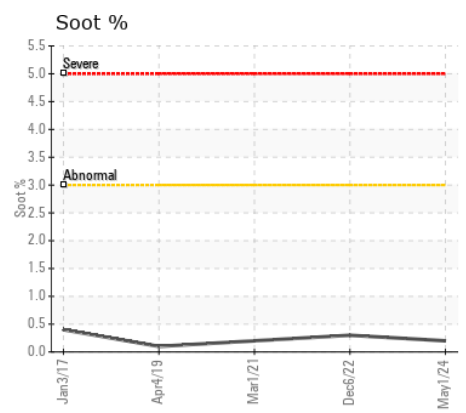
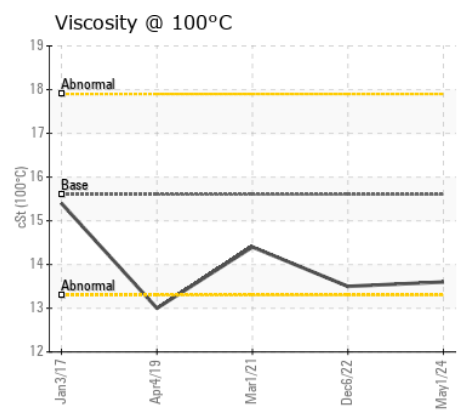
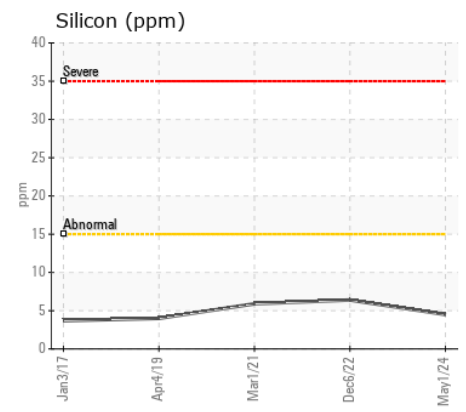
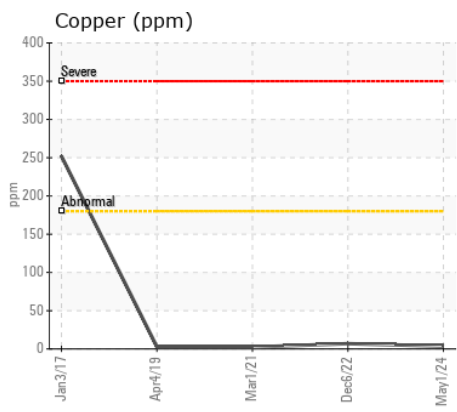
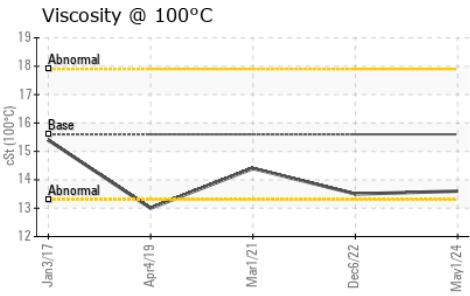
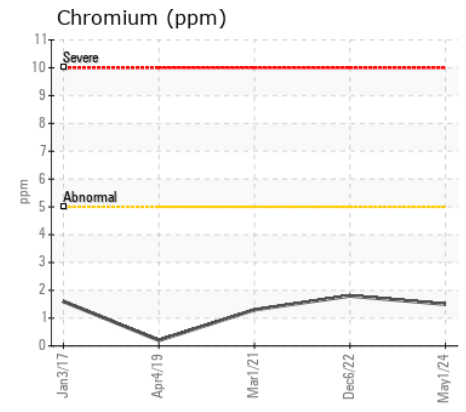
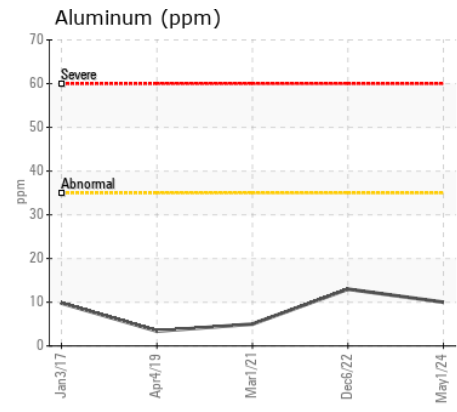
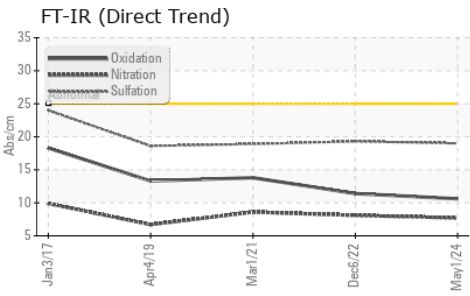
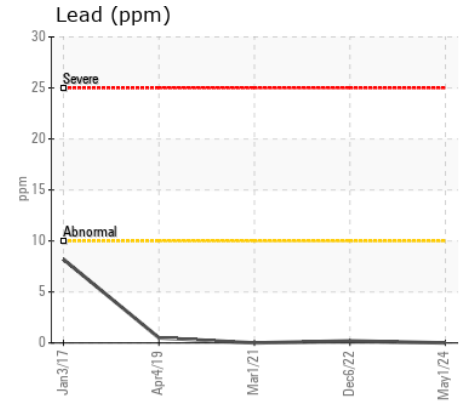
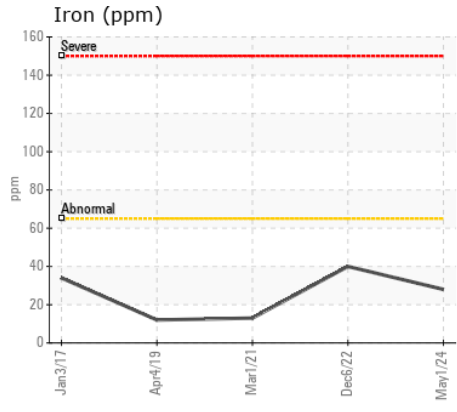
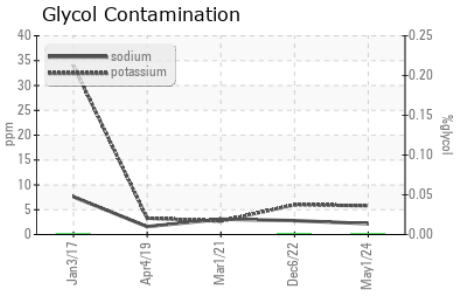
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	4	6	6
Potassium	ppm	ASTM D5185(m)	>20	6	6	3
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	NEG
Soot %	%	ASTM D7844*	>3	0.2	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	7.7	8.1	8.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.0	19.3	18.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	3	3
Boron	ppm	ASTM D5185(m)	0	5	13	32
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	7	24	76
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	825	37	69	240
Calcium	ppm	ASTM D5185(m)	925	2269	2132	1800
Phosphorus	ppm	ASTM D5185(m)	850	828	927	920
Zinc	ppm	ASTM D5185(m)	1000	989	1007	1152
Sulfur	ppm	ASTM D5185(m)	2250	2812	2941	3021
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.6	11.4	13.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.6	13.5	14.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0922828 **Received** : 17 May 2024
Lab Number : 02636310 **Tested** : 21 May 2024
Unique Number : 5785472 **Diagnosed** : 21 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.