

Machine Id
FREIGHTLINER TRK 316
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0111244	PCA0087591	PCA0087604
Sample Date		Client Info		02 Mar 2024	05 Jan 2024	04 Nov 2023
Machine Age	mls	Client Info		709060	694025	676675
Oil Age	mls	Client Info		20000	20000	10000
Filter Age	mls	Client Info		10000	10000	10000
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	>86	9	9	6
Chromium	ppm	ASTM D5185m	>3	<1	<1	<1
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	2	<1
Lead	ppm	ASTM D5185m	>16	4	3	<1
Copper	ppm	ASTM D5185m	>250	3	3	2
Tin	ppm	ASTM D5185m	>2	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

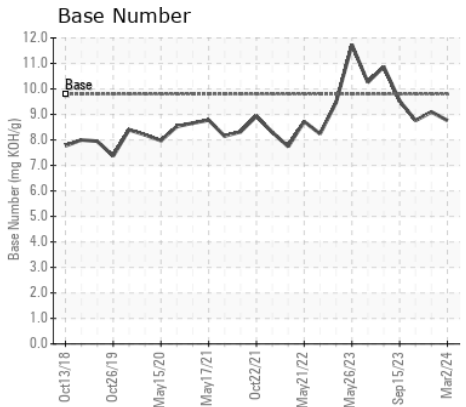
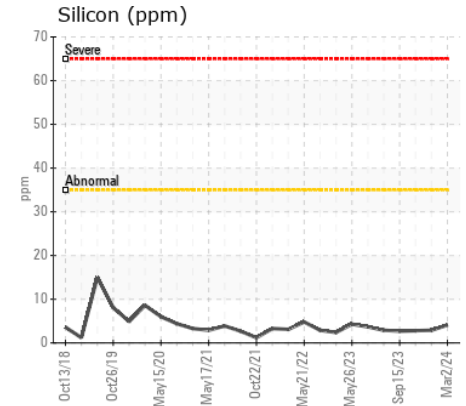
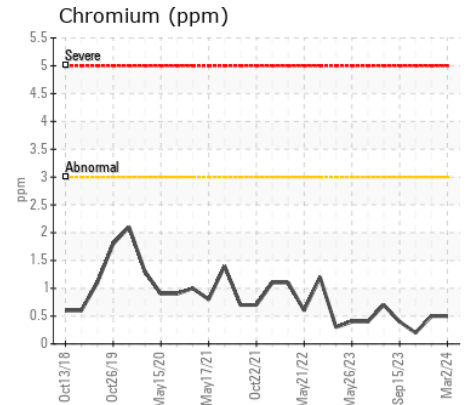
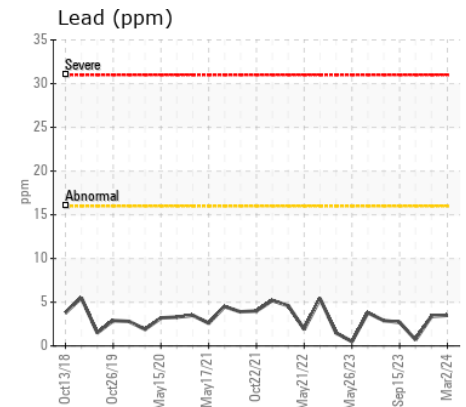
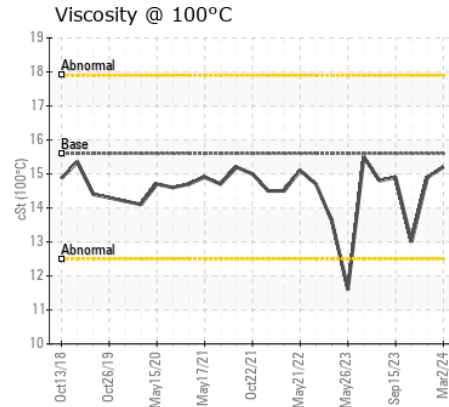
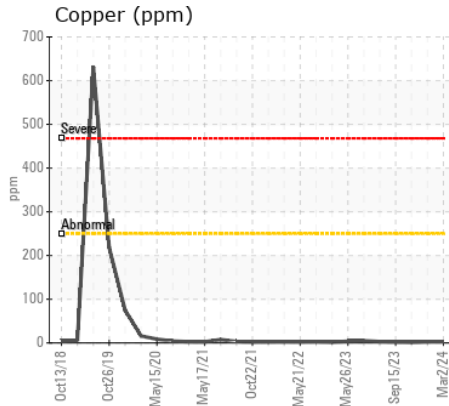
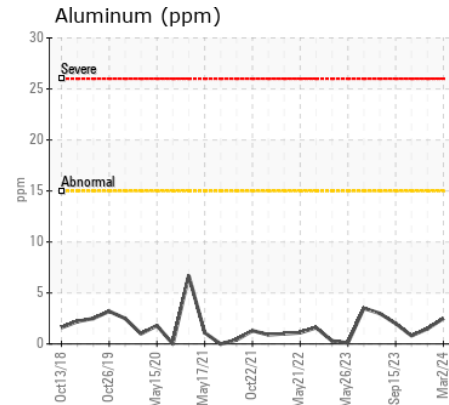
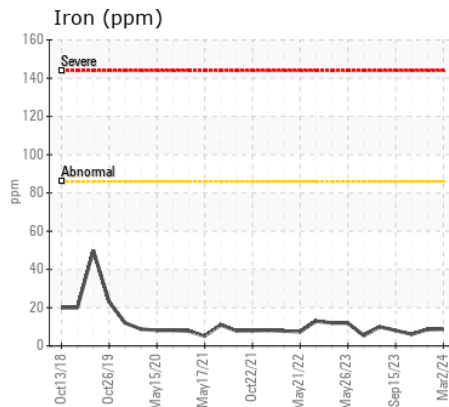
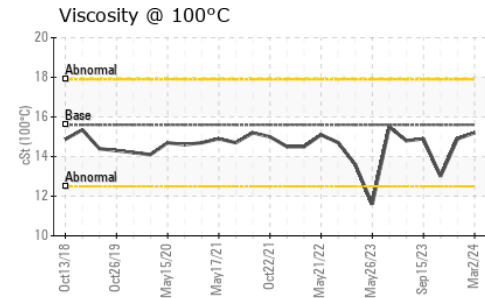
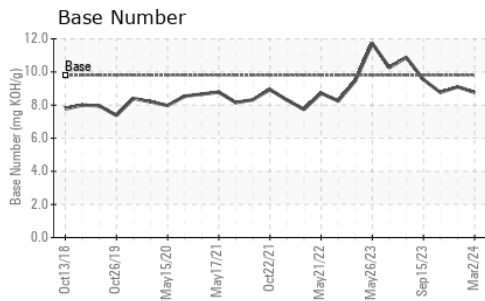
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	4	3	3
Potassium	ppm	ASTM D5185m	>20	2	2	0
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	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.4	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	21.7	22.1
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		2	0	0
Boron	ppm	ASTM D5185m		<1	0	3
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m		116	109	89
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		927	938	796
Calcium	ppm	ASTM D5185m		987	1032	832
Phosphorus	ppm	ASTM D5185m		1054	1017	853
Zinc	ppm	ASTM D5185m		1196	1196	992
Sulfur	ppm	ASTM D5185m		3169	3280	2411
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	20.4	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.76	9.10	8.76
Visc @ 100°C	cSt	ASTM D445	15.6	15.2	14.9	13.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PCA0111244

Lab Number : 06106305

Unique Number : 10909802

Test Package : MOB 2

Received : 01 Mar 2024

Tested : 04 Mar 2024

Diagnosed : 04 Mar 2024 - Wes Davis

J&J TRUCKING

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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)