

Machine Id
FREIGHTLINER 776413
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0116601	PCA0099237	PCA0099267
Sample Date		Client Info		01 May 2024	18 Sep 2023	11 Aug 2023
Machine Age	mls	Client Info		417837	395115	382381
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not 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	>200	7	9	11
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	5	7
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>30	<1	1	1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

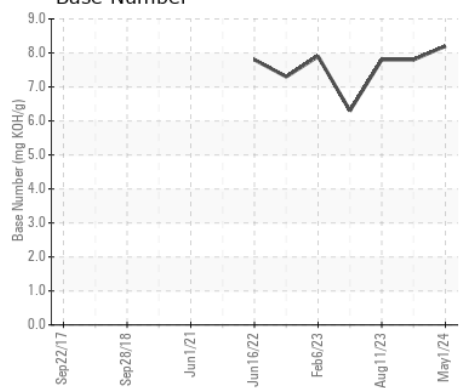
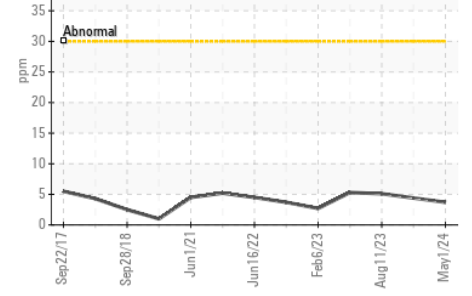
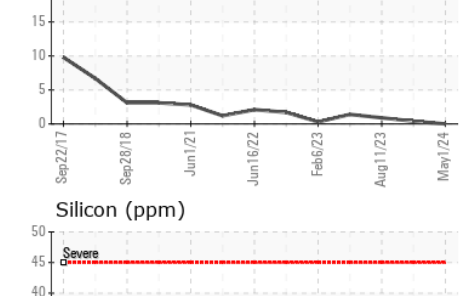
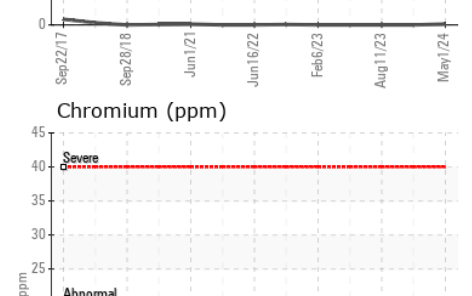
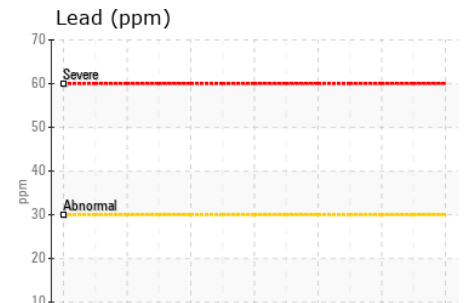
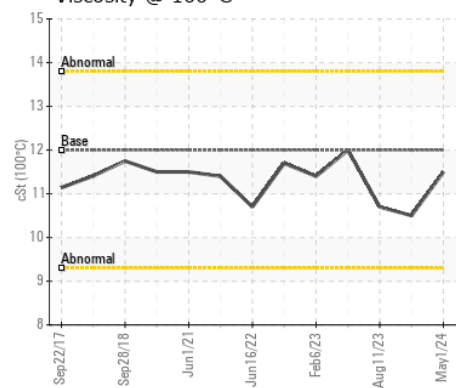
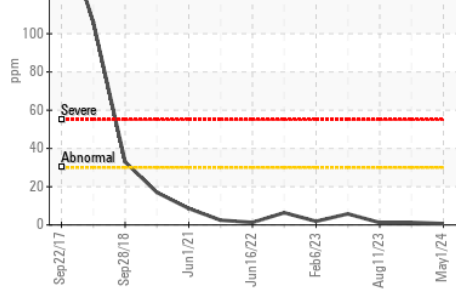
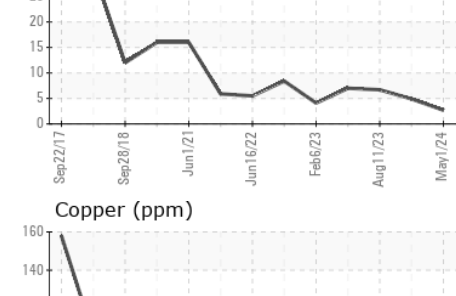
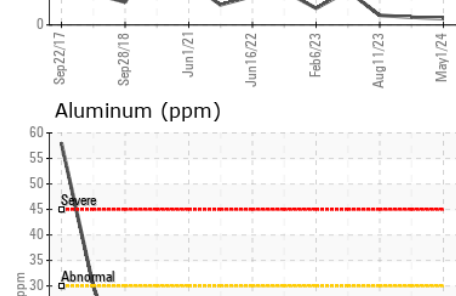
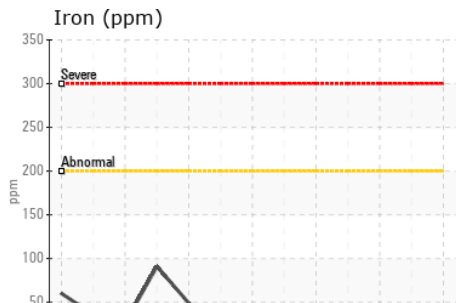
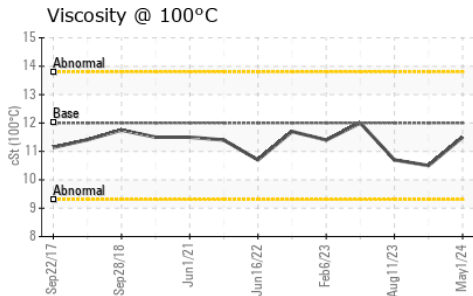
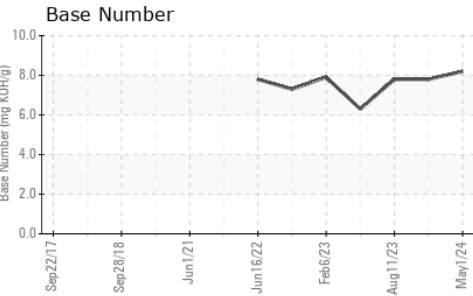
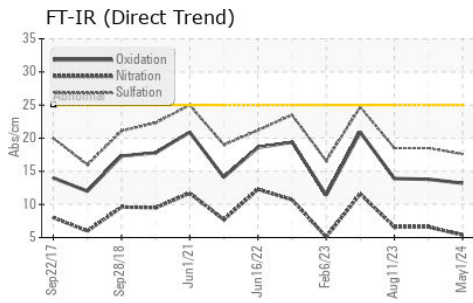
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	4	4	5
Potassium	ppm	ASTM D5185m	>20	<1	2	4
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	>3	0.2	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.4	6.6	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	18.5	18.5
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		1	2	3
Boron	ppm	ASTM D5185m	2	25	20	24
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	60	55	66
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	859	840	940
Calcium	ppm	ASTM D5185m	1050	1076	1017	1125
Phosphorus	ppm	ASTM D5185m	995	1008	959	1024
Zinc	ppm	ASTM D5185m	1180	1174	1139	1231
Sulfur	ppm	ASTM D5185m	2600	3325	3140	3541
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	13.8	13.9
Base Number (BN)	mg KOH/g	ASTM D2896		8.2	7.8	7.8
Visc @ 100°C	cSt	ASTM D445	12.00	11.5	10.5	10.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116601 **Received** : 22 May 2024
Lab Number : 06187277 **Tested** : 23 May 2024
Unique Number : 11044029 **Diagnosed** : 23 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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 575 PROSPECT ST
 LAKEWOOD, NJ
 US 08701
 Contact: MARTIN RUCCI
 mrucci@millertransgroup.com
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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)