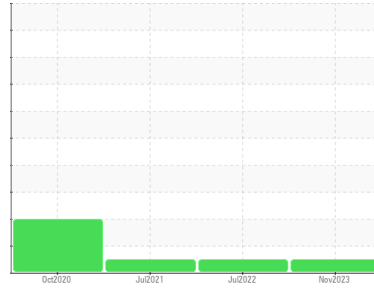


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Machine Id
FREIGHTLINER 503087

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS
Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0098965	PCA0070891	PCA0055394
Sample Date	Client Info			22 Nov 2023	09 Jul 2022	31 Jul 2021
Machine Age	mls	Client Info		143835	94447	60110
Oil Age	mls	Client Info		0	34337	27408
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<1.0	<1.0	<1.0
Water	WC Method	>0.2		NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>65	32	33	26
Chromium	ppm	ASTM D5185m	>5	3	5	5
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m	>5	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>35	26	32	33
Lead	ppm	ASTM D5185m	>10	2	<1	<1
Copper	ppm	ASTM D5185m	>180	22	47	62
Tin	ppm	ASTM D5185m	>8	2	2	5
Antimony	ppm	ASTM D5185m	>35	---	---	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

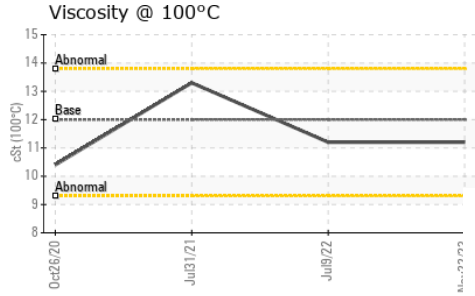
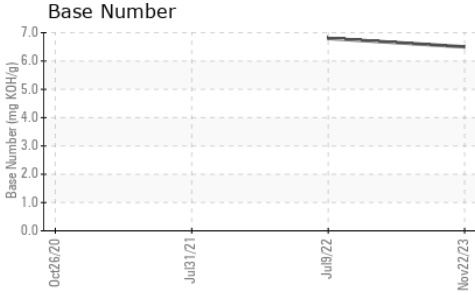
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	5	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	58	66	64
Manganese	ppm	ASTM D5185m	0	1	<1	1
Magnesium	ppm	ASTM D5185m	950	784	942	881
Calcium	ppm	ASTM D5185m	1050	1062	1202	1118
Phosphorus	ppm	ASTM D5185m	995	818	913	832
Zinc	ppm	ASTM D5185m	1180	1006	1229	1080
Sulfur	ppm	ASTM D5185m	2600	2574	2878	2046

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	5	4
Sodium	ppm	ASTM D5185m		4	0	2
Potassium	ppm	ASTM D5185m	>20	36	51	61

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.9	0.6
Nitration	Abs/cm	*ASTM D7624	>20	12.0	10.2	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	23.0	20.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	18.0	15.8
Base Number (BN)	mg KOH/g	ASTM D2896		6.5	6.8	---

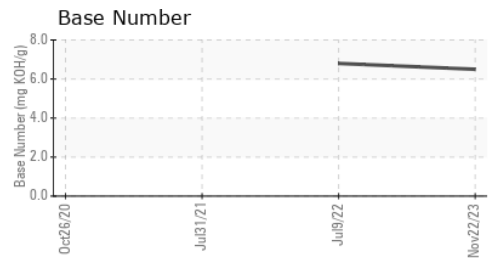
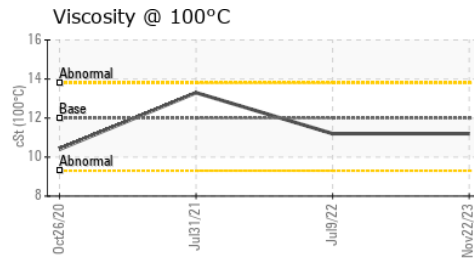
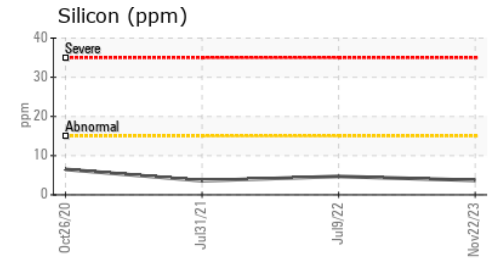
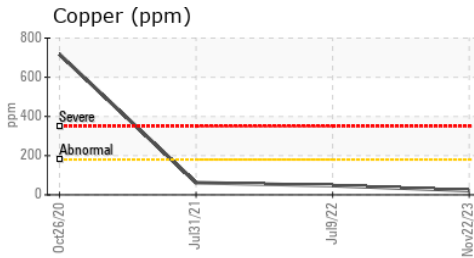
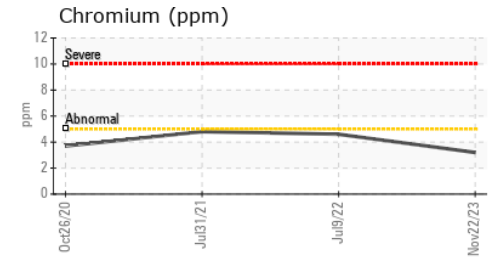
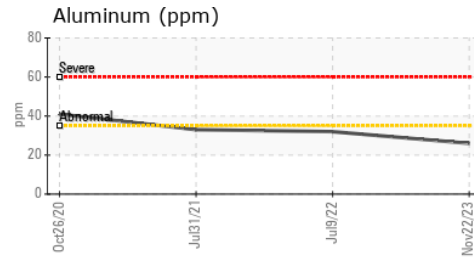
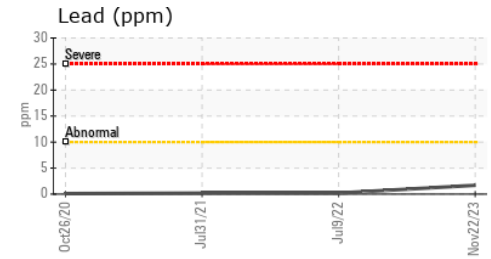
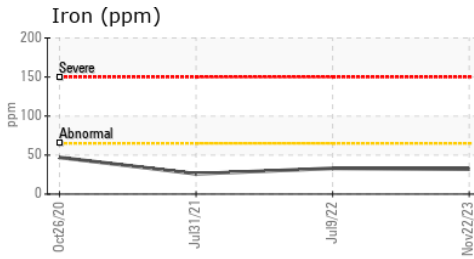
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	13.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098965 **Received** : 14 Mar 2024
Lab Number : 06118083 **Tested** : 15 Mar 2024
Unique Number : 10926916 **Diagnosed** : 15 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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 CINNAMINSON, NJ
 US 08077
 Contact: MIKE BOYER
 mboyer@millertransgroup.com
 T: (856)662-4264
 F: (856)663-4898

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)