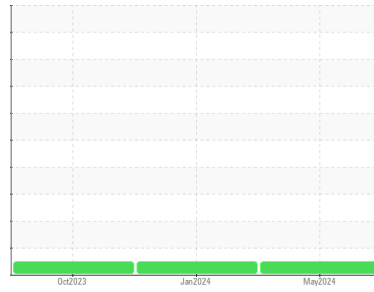


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
745185
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected 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			PCA0125243	PCA0114549	PCA0108321
Sample Date	Client Info			11 May 2024	06 Jan 2024	30 Oct 2023
Machine Age	mls	Client Info		144755	74140	34998
Oil Age	mls	Client Info		144755	0	0
Oil Changed	Client Info			Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	<1.0
Water	WC Method	>0.2		NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	89	149	81
Chromium	ppm	ASTM D5185m	>20	4	8	5
Nickel	ppm	ASTM D5185m	>4	1	2	0
Titanium	ppm	ASTM D5185m		6	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	36	81	66
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	61	212	224
Tin	ppm	ASTM D5185m	>15	1	3	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

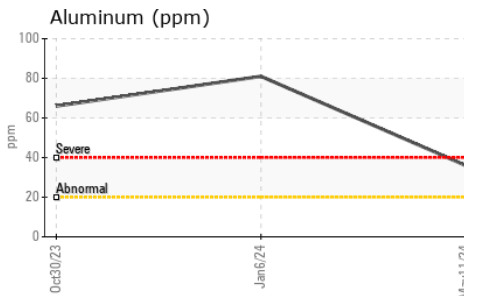
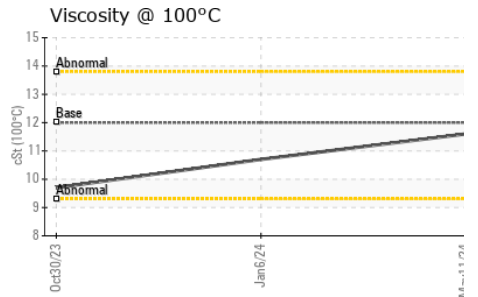
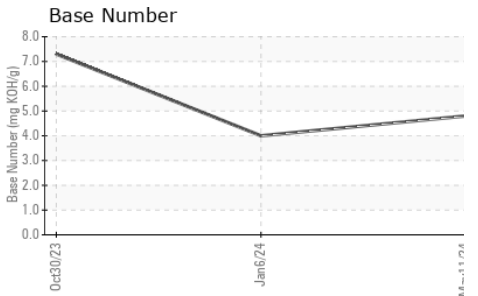
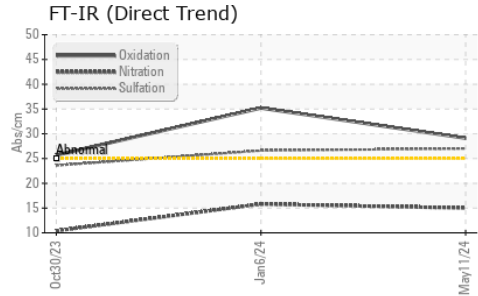
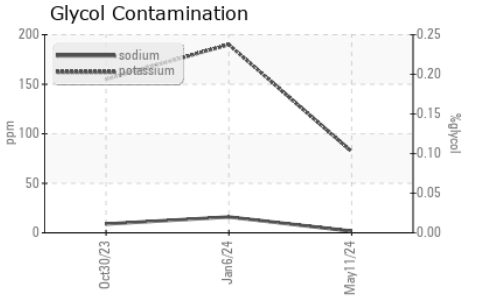
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5	19	26
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	50	59	45	42
Manganese	ppm	ASTM D5185m	0	2	5	4
Magnesium	ppm	ASTM D5185m	950	870	611	474
Calcium	ppm	ASTM D5185m	1050	1319	1734	1688
Phosphorus	ppm	ASTM D5185m	995	1097	799	644
Zinc	ppm	ASTM D5185m	1180	1222	1006	795
Sulfur	ppm	ASTM D5185m	2600	2242	2009	1611

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	14	10
Sodium	ppm	ASTM D5185m		2	16	9
Potassium	ppm	ASTM D5185m	>20	82	190	155

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.3	1.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	15.0	15.8	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.0	26.6	23.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.1	35.2	25.7
Base Number (BN)	mg KOH/g	ASTM D2896		4.8	4.0	7.3

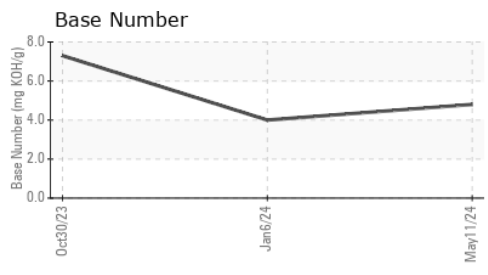
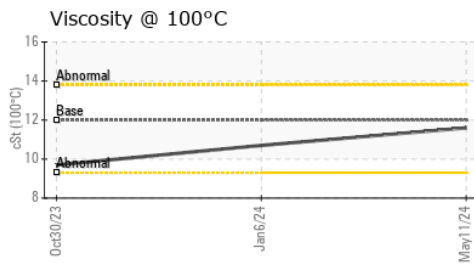
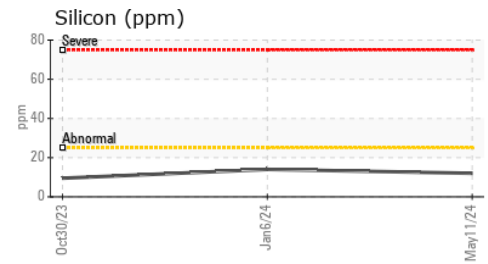
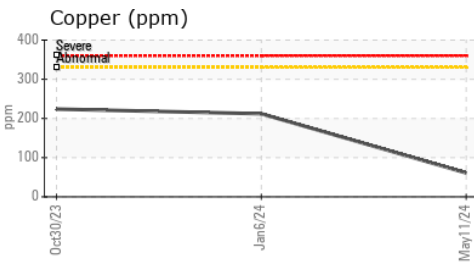
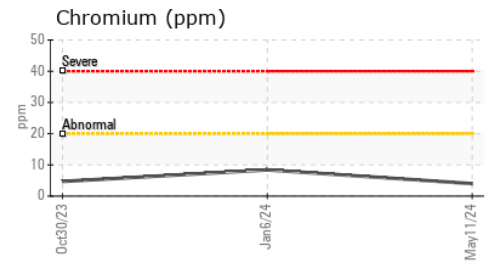
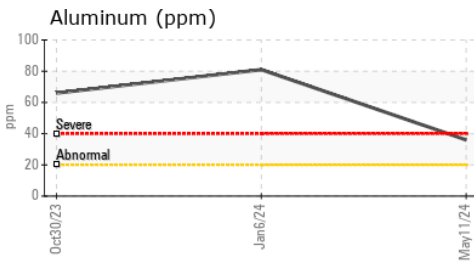
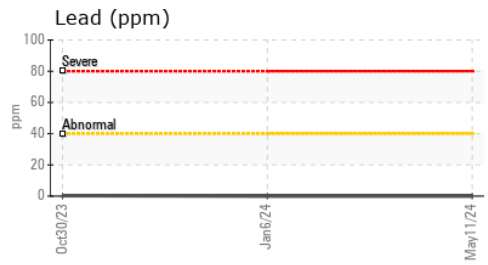
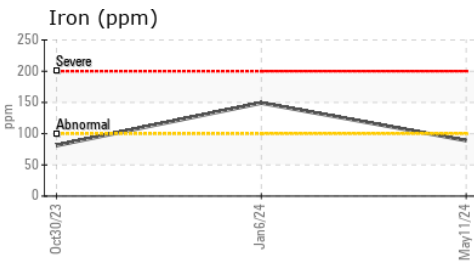
OIL ANALYSIS REPORT



VISUAL	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	11.6	10.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0125243 **Received** : 30 May 2024
Lab Number : **06194974** **Tested** : 31 May 2024
Unique Number : 11057097 **Diagnosed** : 31 May 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

MILLER TRUCK LEASING #118
 2196 BENNETT ROAD
 PHILADELPHIA, PA
 US 19116

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: ROSTY VITER
rviter@millertransgroup.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (215)552-9832

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (215)552-9892