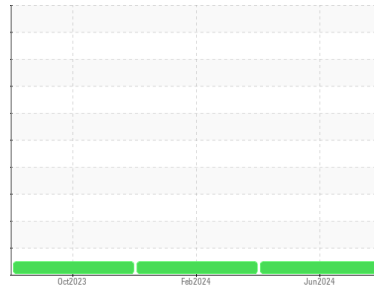


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
649913
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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. Test for glycol is negative.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0128886	PCA0116999	PCA0106275
Sample Date	Client Info			01 Jun 2024	05 Feb 2024	13 Oct 2023
Machine Age	mls	Client Info		37942	27224	16569
Oil Age	mls	Client Info		0	0	0
Oil Changed	Client Info			Changed	N/A	Not Changd
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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	80	53	33
Chromium	ppm	ASTM D5185m	>20	4	4	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	63	52	43
Lead	ppm	ASTM D5185m	>40	<1	3	0
Copper	ppm	ASTM D5185m	>330	324	306	300
Tin	ppm	ASTM D5185m	>15	4	4	3
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0

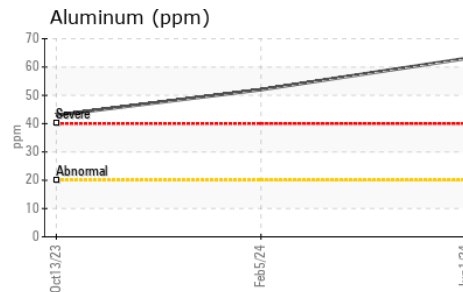
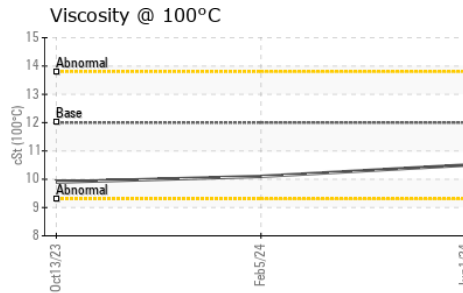
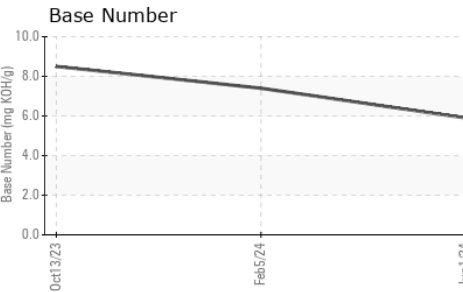
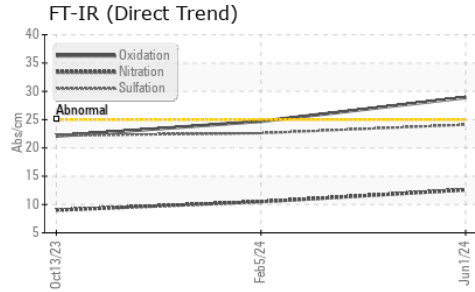
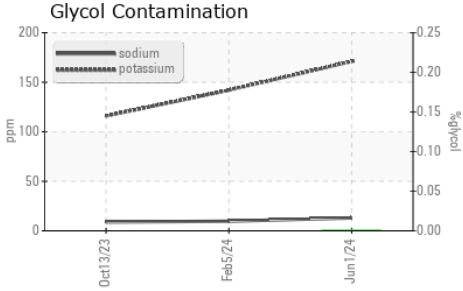
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	34	30	33
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	50	49	46	42
Manganese	ppm	ASTM D5185m	0	5	4	4
Magnesium	ppm	ASTM D5185m	950	595	574	552
Calcium	ppm	ASTM D5185m	1050	1735	1792	1587
Phosphorus	ppm	ASTM D5185m	995	792	792	783
Zinc	ppm	ASTM D5185m	1180	974	953	917
Sulfur	ppm	ASTM D5185m	2600	2171	1969	2033

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	7	7
Sodium	ppm	ASTM D5185m		13	10	9
Potassium	ppm	ASTM D5185m	>20	171	142	116
Glycol	%	*ASTM D2982		0.0	NEG	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	12.6	10.5	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	22.6	22.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.9	24.7	22.1
Base Number (BN)	mg KOH/g	ASTM D2896		5.9	7.4	8.5

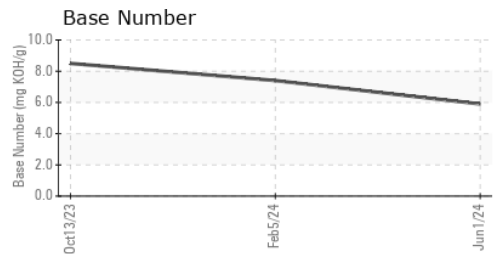
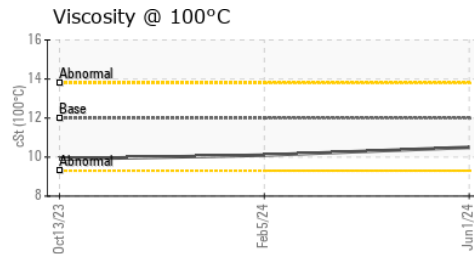
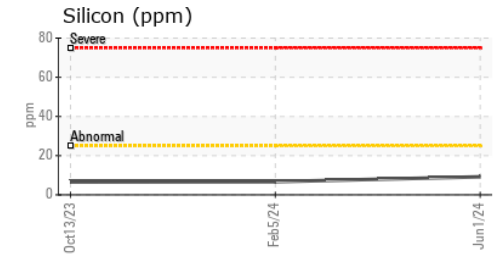
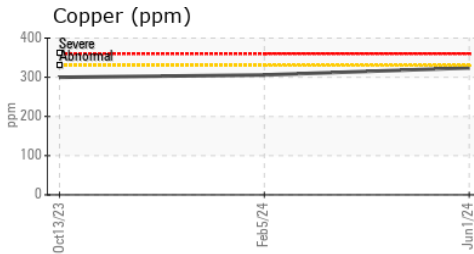
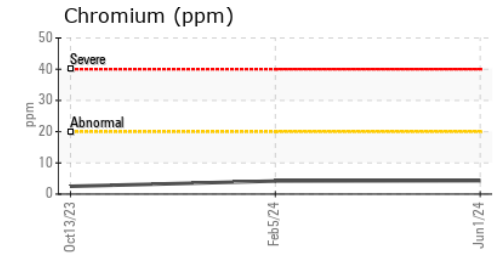
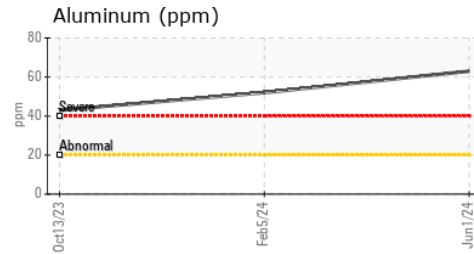
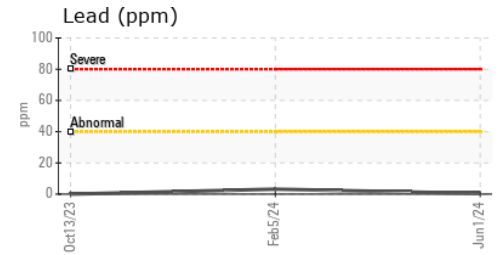
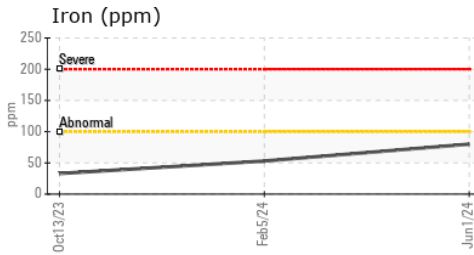
OIL ANALYSIS REPORT



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

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	10.5	10.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0128886 **Received** : 14 Jun 2024
Lab Number : 06209795 **Tested** : 17 Jun 2024
Unique Number : 11082659 **Diagnosed** : 17 Jun 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: Glycol, TBN)

MILLER TRUCK LEASING #119
 39 INDUSTRIAL AVE
 HASBROUCK HEIGHTS, NJ
 US 07604
 Contact: MIKE LONGETTE
 mlongette@millertransgroup.com

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)

F: (201)528-7053