

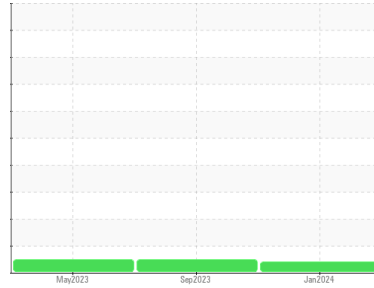
OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Area
(AT652T) Supermarket - Tractor
Machine Id
MACK 107A1856
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 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

There is no indication of any contamination in the oil.

▲ Fluid Condition

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0116970	PCA0104084	PCA0097065
Sample Date	Client Info		31 Jan 2024	07 Sep 2023	17 May 2023
Machine Age	mls	Client Info	279445	276068	272579
Oil Age	mls	Client Info	3377	3489	2634
Oil Changed	Client Info		Changed	Changed	Not Changed
Sample Status			ATTENTION	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	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >120	15	26	15
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >5	<1	2	<1
Titanium	ppm	ASTM D5185m >2	0	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >20	1	4	3
Lead	ppm	ASTM D5185m >40	0	<1	<1
Copper	ppm	ASTM D5185m >330	3	6	3
Tin	ppm	ASTM D5185m >15	0	<1	1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	31	23	28
Barium	ppm	ASTM D5185m 0	9	0	0
Molybdenum	ppm	ASTM D5185m 50	67	67	64
Manganese	ppm	ASTM D5185m 0	0	1	<1
Magnesium	ppm	ASTM D5185m 950	839	963	941
Calcium	ppm	ASTM D5185m 1050	998	1208	1162
Phosphorus	ppm	ASTM D5185m 995	841	1100	1082
Zinc	ppm	ASTM D5185m 1180	1162	1325	1323
Sulfur	ppm	ASTM D5185m 2600	2654	3968	4001

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	3	4	4
Sodium	ppm	ASTM D5185m	0	2	<1
Potassium	ppm	ASTM D5185m >20	2	1	2

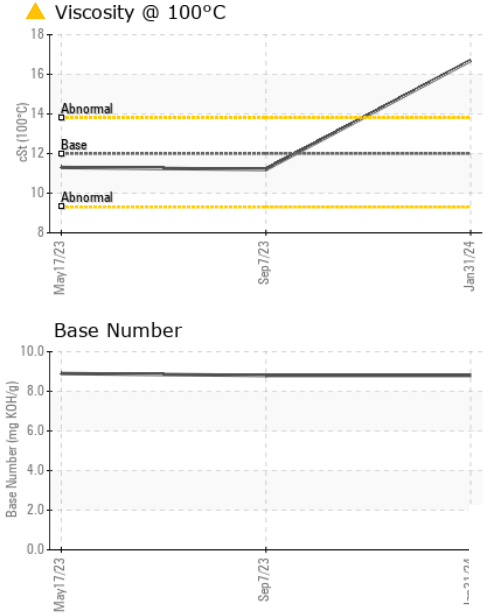
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	0.1	0.2	0.1
Nitration	Abs/cm	*ASTM D7624 >20	5.6	7.9	6.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	17.5	17.8	17.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	13.1	13.7	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.8	8.8	8.9

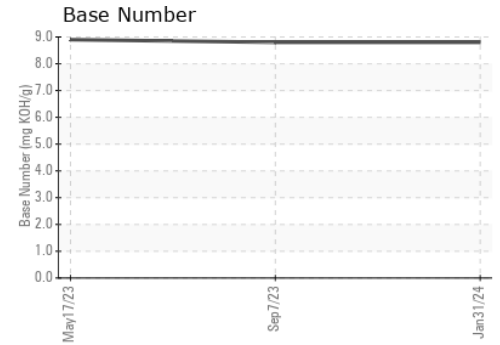
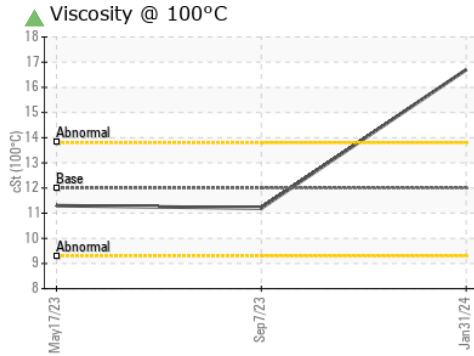
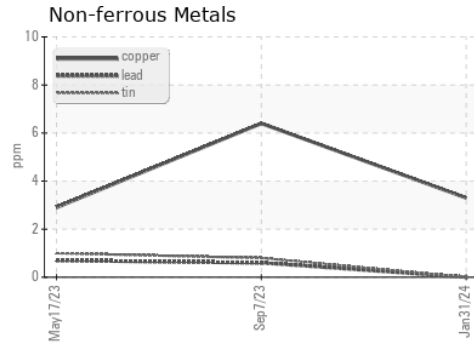
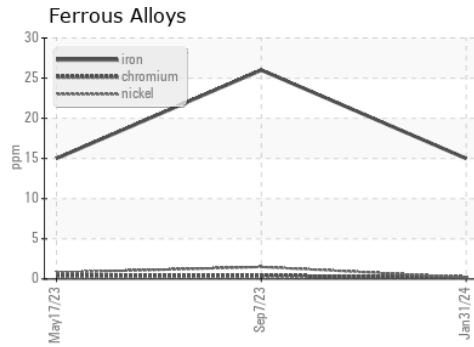
OIL ANALYSIS REPORT



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 ▲ 16.7	11.2	11.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116970
Lab Number : 06088476
Unique Number : 10875921
Test Package : FLEET

Received : 14 Feb 2024
Tested : 15 Feb 2024
Diagnosed : 15 Feb 2024 - Don Baldrige

Transervice - Shop 1071 - Supermarket-Dayton
 60 A Tower Road
 Dayton, NJ
 US 08810
 Contact: Brian Quinn
 bquinn@transervice.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)

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