

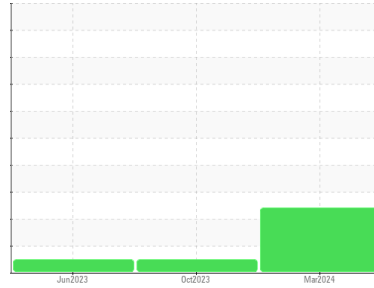
OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Area
(AT656T) Supermarket - Tractor
Machine Id
MACK 107A1897
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. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. 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		PCA0116460	PCA0104836	PCA0096009
Sample Date	Client Info		20 Mar 2024	24 Oct 2023	09 Jun 2023
Machine Age	mls	Client Info	403574	386916	376506
Oil Age	mls	Client Info	16658	10410	17819
Oil Changed	Client Info		Changed	Changed	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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >120	11	14	19
Chromium	ppm	ASTM D5185m >20	1	<1	<1
Nickel	ppm	ASTM D5185m >5	1	0	0
Titanium	ppm	ASTM D5185m >2	<1	0	<1
Silver	ppm	ASTM D5185m >2	<1	<1	0
Aluminum	ppm	ASTM D5185m >20	5	8	4
Lead	ppm	ASTM D5185m >40	2	0	2
Copper	ppm	ASTM D5185m >330	6	32	3
Tin	ppm	ASTM D5185m >15	2	<1	2
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	15	18	6
Barium	ppm	ASTM D5185m 0	2	0	0
Molybdenum	ppm	ASTM D5185m 50	68	50	61
Manganese	ppm	ASTM D5185m 0	1	<1	<1
Magnesium	ppm	ASTM D5185m 950	873	770	1005
Calcium	ppm	ASTM D5185m 1050	1079	1168	1201
Phosphorus	ppm	ASTM D5185m 995	974	952	1070
Zinc	ppm	ASTM D5185m 1180	1180	1140	1393
Sulfur	ppm	ASTM D5185m 2600	3046	2775	3916

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	3	5
Sodium	ppm	ASTM D5185m	83	3	6
Potassium	ppm	ASTM D5185m >20	38	16	<1
Glycol	%	*ASTM D2982	NEG	NEG	NEG

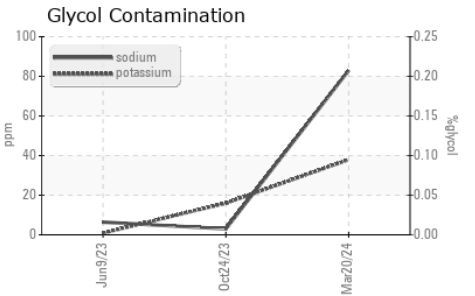
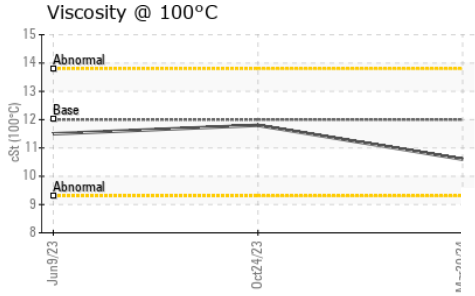
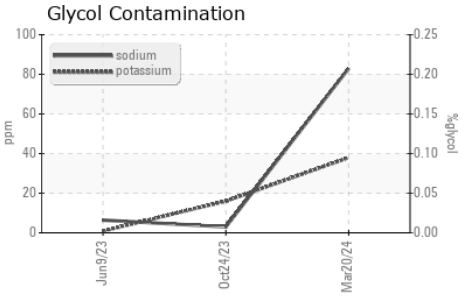
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	0.3	0.5	1.4
Nitration	Abs/cm	*ASTM D7624 >20	9.6	7.6	9.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	17.5	19.8	22.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.2	15.6	17.3
Base Number (BN)	mg KOH/g	ASTM D2896	11.8	8.3	7.1

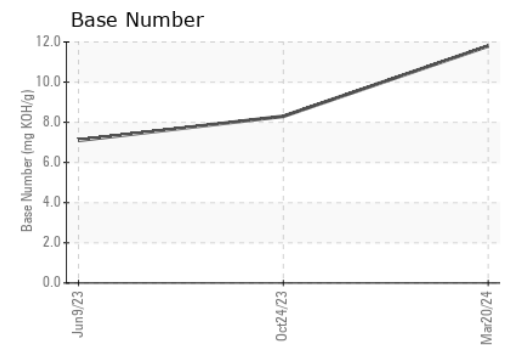
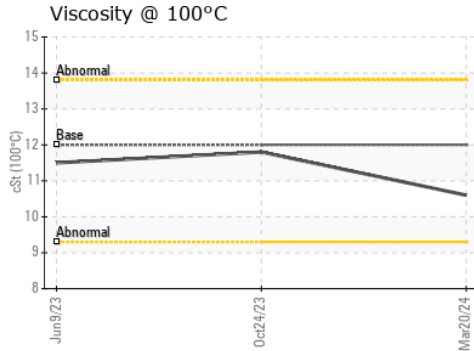
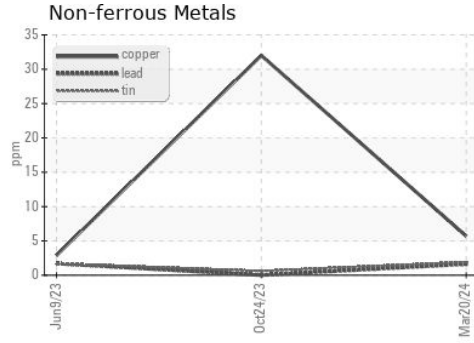
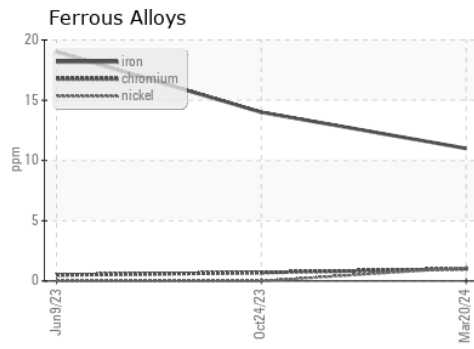
OIL ANALYSIS REPORT



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	10.6	11.8

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116460 **Received** : 25 Mar 2024
Lab Number : 06127521 **Tested** : 27 Mar 2024
Unique Number : 10941672 **Diagnosed** : 27 Mar 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

Transervice - Shop 1072 - Supermarket-Elizabeth
 505 Division Street
 Elizabeth, NJ
 US 07207
 Contact: Normand Brizak
 nbrizak@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)

T:
F: