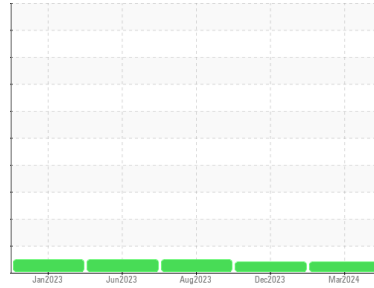


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
724575
 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

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		PCA0120645	PCA0115184	PCA0104227
Sample Date	Client Info		05 Mar 2024	28 Dec 2023	28 Aug 2023
Machine Age	mls	Client Info	290503	268190	227179
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		Changed	N/A	Changed
Sample Status			ABNORMAL	ATTENTION	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	60	38	81
Chromium	ppm	ASTM D5185m >20	2	1	3
Nickel	ppm	ASTM D5185m >4	0	0	1
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	8	6	11
Lead	ppm	ASTM D5185m >40	0	0	<1
Copper	ppm	ASTM D5185m >330	12	11	35
Tin	ppm	ASTM D5185m >15	<1	<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	15	18	6
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	54	51	68
Manganese	ppm	ASTM D5185m 0	<1	1	1
Magnesium	ppm	ASTM D5185m 950	615	640	886
Calcium	ppm	ASTM D5185m 1050	1481	1499	1214
Phosphorus	ppm	ASTM D5185m 995	1046	1097	1031
Zinc	ppm	ASTM D5185m 1180	1255	1283	1282
Sulfur	ppm	ASTM D5185m 2600	2661	2562	2414

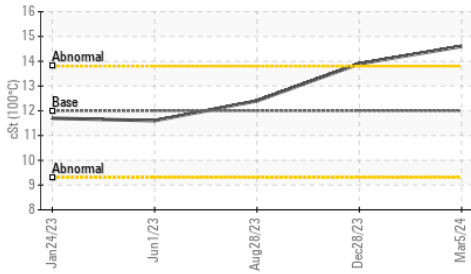
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	6	7
Sodium	ppm	ASTM D5185m	1	2	2
Potassium	ppm	ASTM D5185m >20	14	7	23

INFRA-RED	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	2.2	1.6	2.5
Nitration	Abs/cm	*ASTM D7624 >20	15.2	12.5	15.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	31.4	27.1	28.9

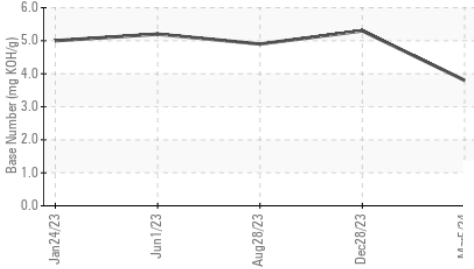
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	31.8	26.5	27.5
Base Number (BN)	mg KOH/g	ASTM D2896	3.8	5.3	4.9

OIL ANALYSIS REPORT

▲ Viscosity @ 100°C



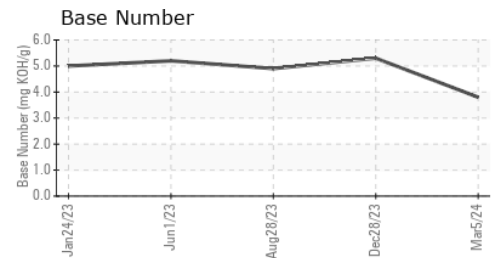
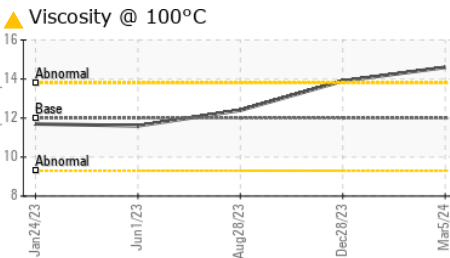
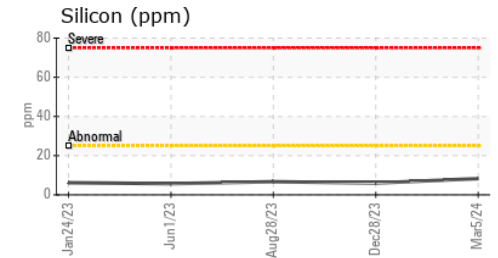
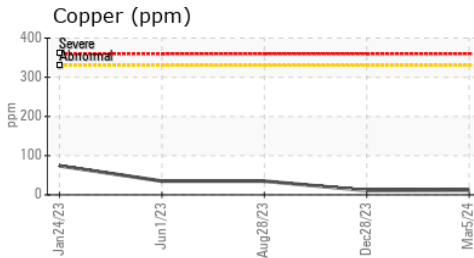
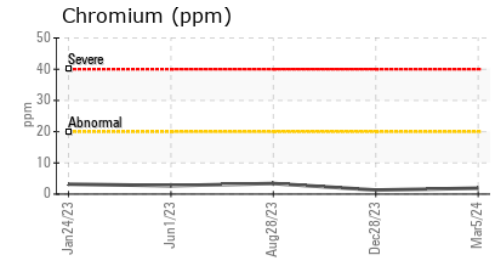
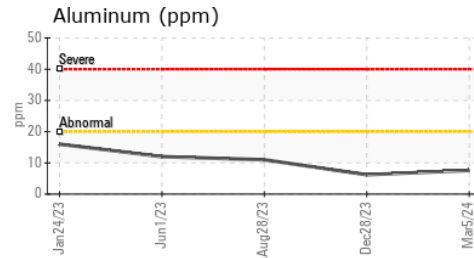
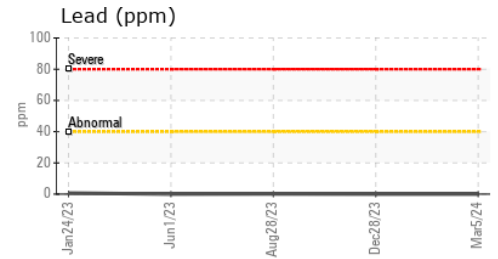
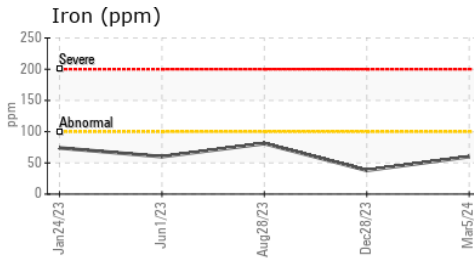
Base Number



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	▲ 14.6	● 13.9	12.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0120645 **Received** : 13 Mar 2024
Lab Number : 06116695 **Tested** : 14 Mar 2024
Unique Number : 10925528 **Diagnosed** : 14 Mar 2024 - Angela Borella

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)

T: (201)528-7053