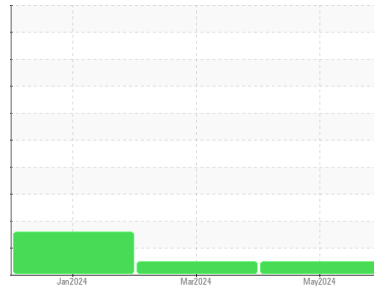


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
130108M

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination 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		PCA0121030	PCA0116918	PCA0113569
Sample Date	Client Info		14 May 2024	05 Mar 2024	18 Jan 2024
Machine Age	mls	Client Info	65715	50449	41233
Oil Age	mls	Client Info	15326	9216	0
Oil Changed	Client Info		Changed	Changed	N/A
Sample Status			NORMAL	NORMAL	ABNORMAL

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	42	45	▲ 127
Chromium	ppm	ASTM D5185m >20	<1	<1	2
Nickel	ppm	ASTM D5185m >4	0	<1	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >3	0	<1	0
Aluminum	ppm	ASTM D5185m >20	2	5	11
Lead	ppm	ASTM D5185m >40	2	4	16
Copper	ppm	ASTM D5185m >330	33	115	▲ 400
Tin	ppm	ASTM D5185m >15	1	3	6
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	0	2	5
Barium	ppm	ASTM D5185m 0	0	2	0
Molybdenum	ppm	ASTM D5185m 50	69	68	74
Manganese	ppm	ASTM D5185m 0	<1	<1	2
Magnesium	ppm	ASTM D5185m 950	1103	960	1079
Calcium	ppm	ASTM D5185m 1050	1262	1254	1718
Phosphorus	ppm	ASTM D5185m 995	1106	1066	1307
Zinc	ppm	ASTM D5185m 1180	1416	1297	1754
Sulfur	ppm	ASTM D5185m 2600	3347	2945	3228

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	6	7	18
Sodium	ppm	ASTM D5185m	3	<1	7
Potassium	ppm	ASTM D5185m >20	<1	5	10

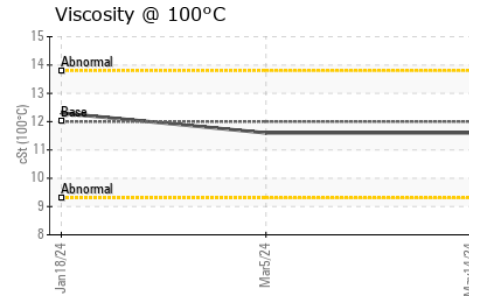
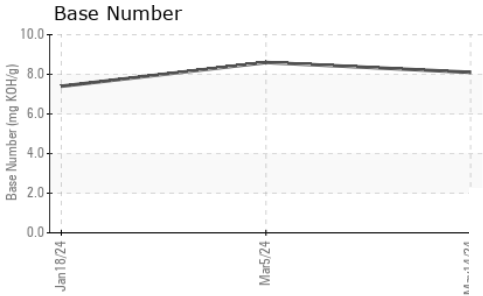
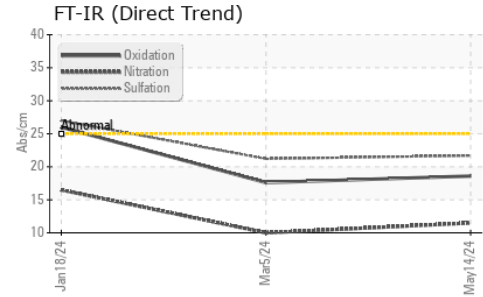
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.1	0.8	1.6
Nitration	Abs/cm	*ASTM D7624 >20	11.5	10.0	16.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.7	21.2	27.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.6	17.6	26.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.1	8.6	7.4

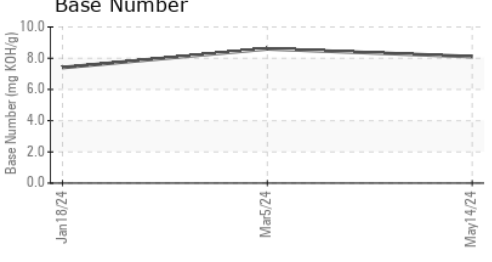
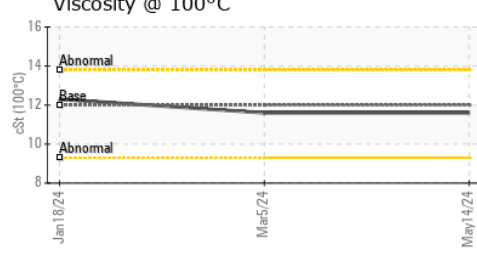
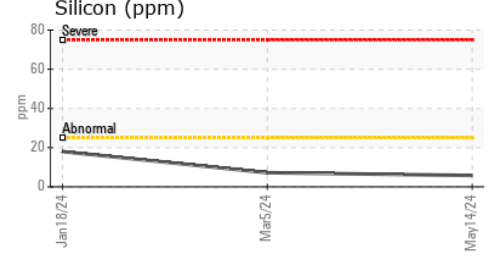
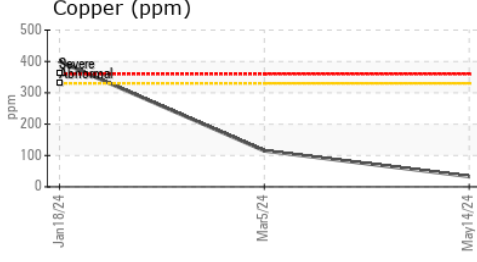
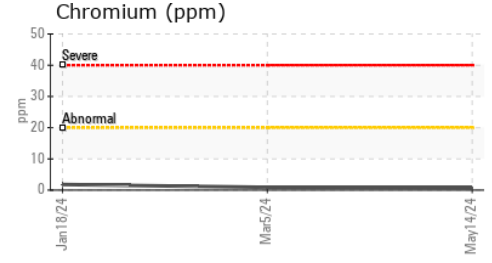
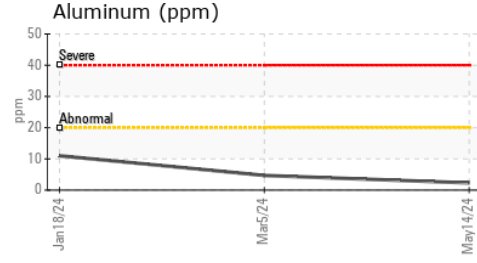
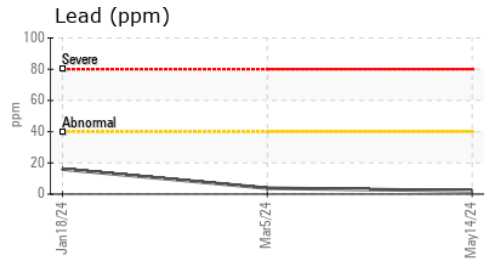
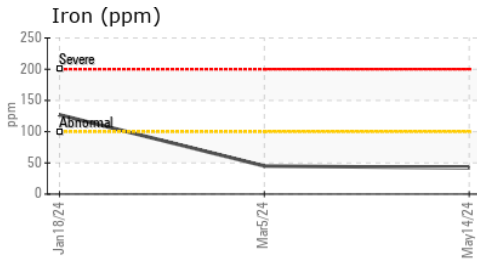
OIL ANALYSIS REPORT



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	11.6

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0121030 **Received** : 07 Jun 2024
Lab Number : 06202451 **Tested** : 11 Jun 2024
Unique Number : 11069912 **Diagnosed** : 11 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

MILLER TRUCK LEASING #114
 63 REPAUPO STATION ROAD
 LOGAN TOWNSHIP, NJ
 US 08085
 Contact: ED DAVIS
 edavis@millertransgroup.com
 T: (856)214-3521
 F: (856)214-3663

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)