

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
336813
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

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. Elemental level of silicon (Si) above normal indicating ingress of seal material.

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	PCA0099118	---	---
Sample Date	Client Info	15 Aug 2023	---	---
Machine Age	mls Client Info	0	---	---
Oil Age	mls Client Info	0	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	---	---
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >100	99	---	---
Chromium ppm	ASTM D5185m >20	3	---	---
Nickel ppm	ASTM D5185m >4	<1	---	---
Titanium ppm	ASTM D5185m	<1	---	---
Silver ppm	ASTM D5185m >3	0	---	---
Aluminum ppm	ASTM D5185m >20	49	---	---
Lead ppm	ASTM D5185m >40	<1	---	---
Copper ppm	ASTM D5185m >330	79	---	---
Tin ppm	ASTM D5185m >15	1	---	---
Vanadium ppm	ASTM D5185m	<1	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 2	43	---	---
Barium ppm	ASTM D5185m 0	0	---	---
Molybdenum ppm	ASTM D5185m 50	120	---	---
Manganese ppm	ASTM D5185m 0	6	---	---
Magnesium ppm	ASTM D5185m 950	732	---	---
Calcium ppm	ASTM D5185m 1050	1366	---	---
Phosphorus ppm	ASTM D5185m 995	750	---	---
Zinc ppm	ASTM D5185m 1180	890	---	---
Sulfur ppm	ASTM D5185m 2600	3198	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	▲ 29	---	---
Sodium ppm	ASTM D5185m	8	---	---
Potassium ppm	ASTM D5185m >20	120	---	---

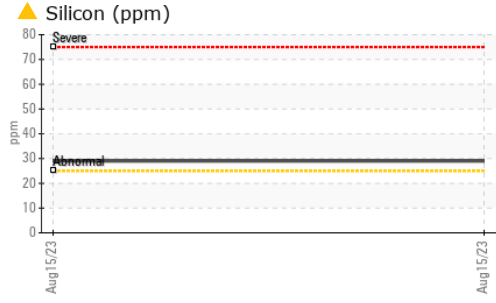
INFRA-RED

method	limit/base	current	history1	history2
Soot %	*ASTM D7844 >3	0.8	---	---
Nitration	*ASTM D7624 Abs./cm >20	12.7	---	---
Sulfation	*ASTM D7415 Abs./1mm >30	22.2	---	---

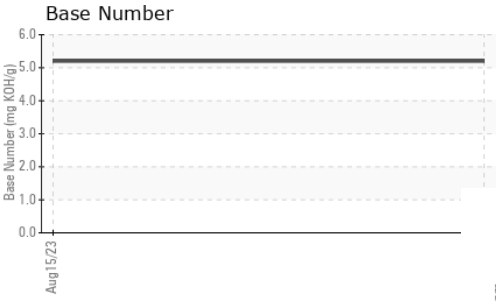
FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414 >25	21.3	---	---
Base Number (BN)	mg KOH/g ASTM D2896	5.2	---	---

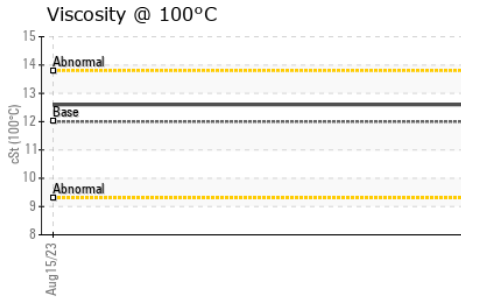
OIL ANALYSIS REPORT



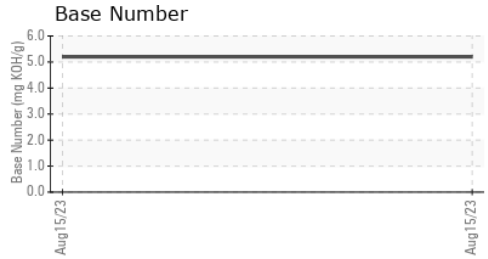
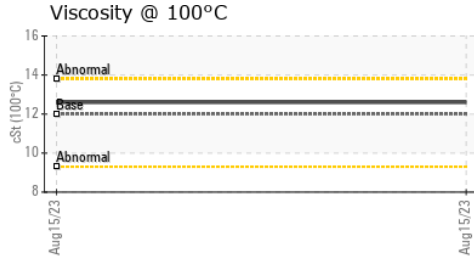
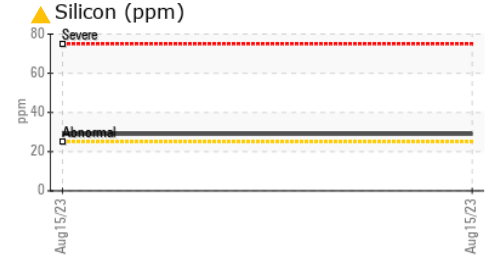
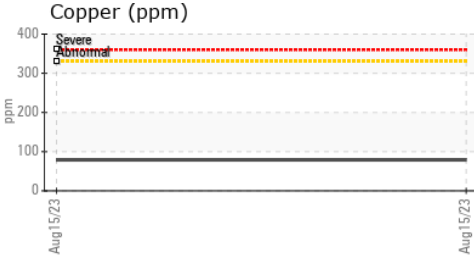
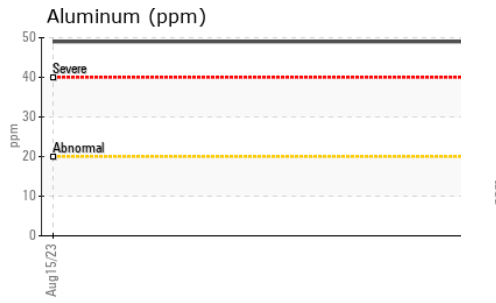
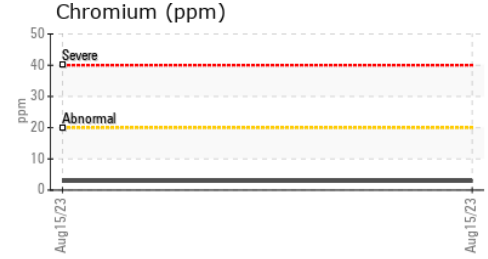
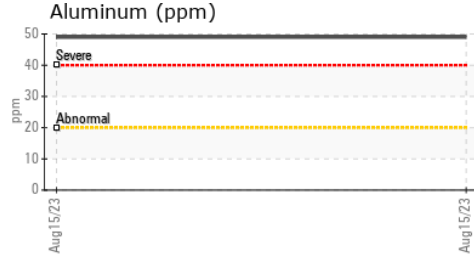
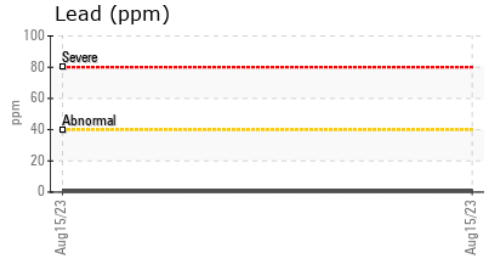
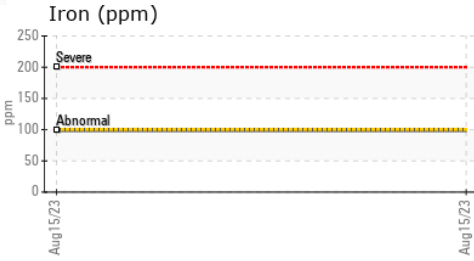
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	12.6	---



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0099118 **Received** : 28 Aug 2023
Lab Number : 05935899 **Diagnosed** : 29 Aug 2023
Unique Number : 10621170 **Diagnostician** : Sean Felton
Test Package : MOB 1 (Additional Tests: TBN)

MILLER TRUCK LEASING #116
 1197 NORTH MAIN ROAD
 VINELAND, NJ
 US 08360
 Contact: JOHN KEEN
 jkeen@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: (856)696-5629