

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
PETERBILT 2
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 XLE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Check for water and gas in diesel)

Wear

The lead level is abnormal. All other component wear rates are normal.

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		PCA0118223	---	---
Sample Date	Client Info		05 Jul 2024	---	---
Machine Age	mls	Client Info	204688	---	---
Oil Age	mls	Client Info	16000	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	29	---
Chromium	ppm	ASTM D5185m	>20	2	---
Nickel	ppm	ASTM D5185m	>2	0	---
Titanium	ppm	ASTM D5185m	>2	0	---
Silver	ppm	ASTM D5185m	>2	0	---
Aluminum	ppm	ASTM D5185m	>20	4	---
Lead	ppm	ASTM D5185m	>40	▲ 45	---
Copper	ppm	ASTM D5185m	>330	3	---
Tin	ppm	ASTM D5185m	>15	1	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		36	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		11	---
Manganese	ppm	ASTM D5185m		<1	---
Magnesium	ppm	ASTM D5185m		635	---
Calcium	ppm	ASTM D5185m	2900	1427	---
Phosphorus	ppm	ASTM D5185m	1100	741	---
Zinc	ppm	ASTM D5185m	1200	883	---
Sulfur	ppm	ASTM D5185m	4000	3459	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	---
Sodium	ppm	ASTM D5185m		3	---
Potassium	ppm	ASTM D5185m	>20	9	---

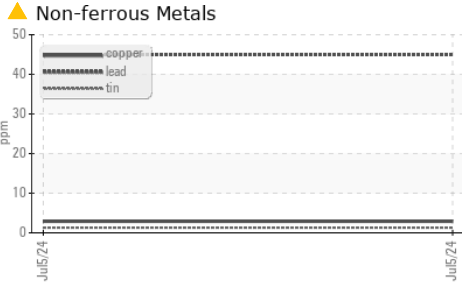
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	---

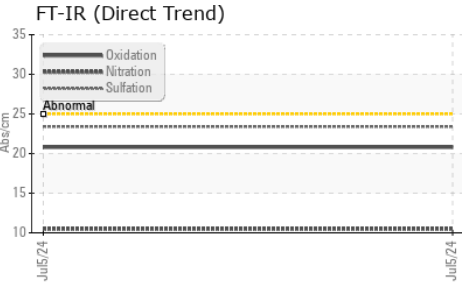
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	6.45	---

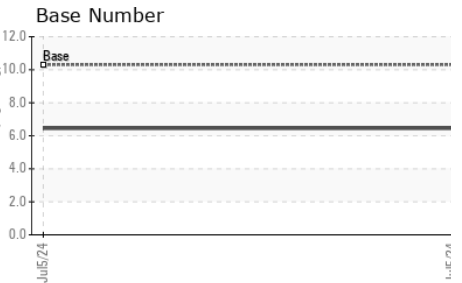
OIL ANALYSIS REPORT



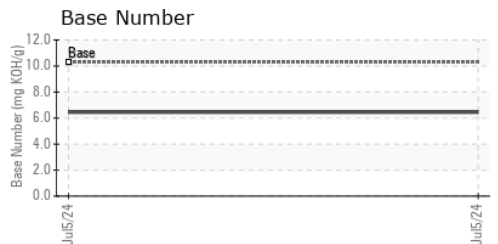
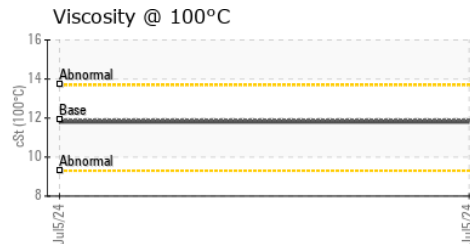
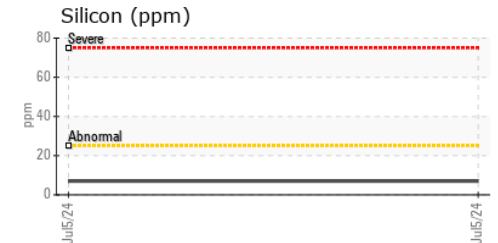
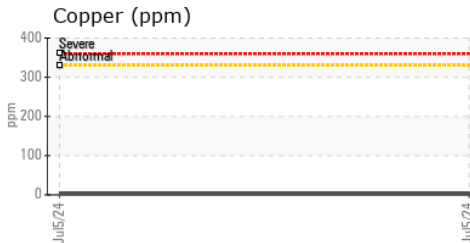
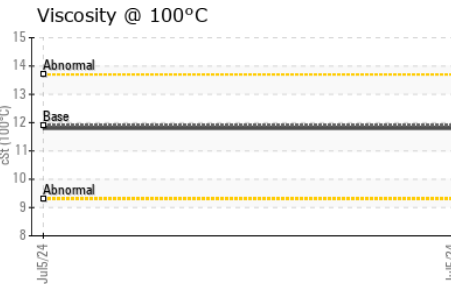
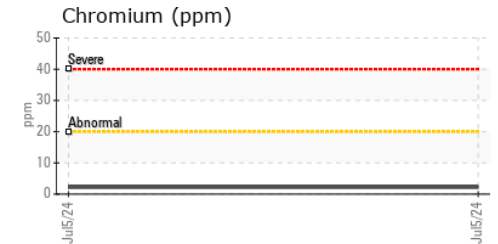
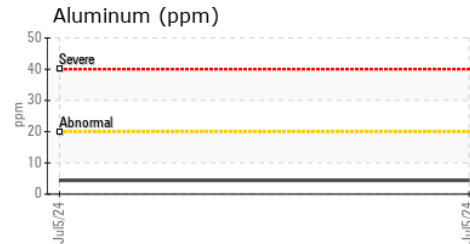
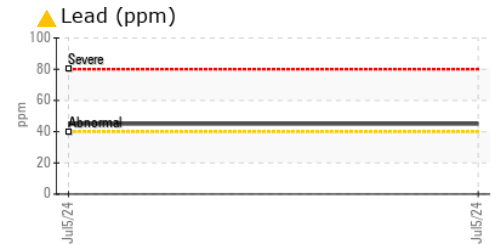
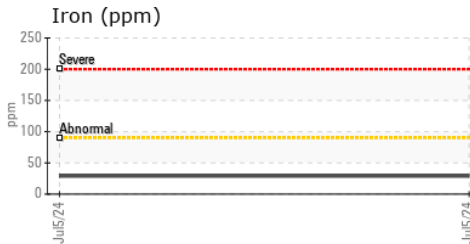
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	---	---
Precipitate	scalar	*Visual	NONE	---	---
Silt	scalar	*Visual	NONE	---	---
Debris	scalar	*Visual	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	---	---
Appearance	scalar	*Visual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



PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.9	11.8	---



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0118223
Lab Number : 06232794
Unique Number : 11116287
Test Package : MOB 2

Received : 10 Jul 2024
Tested : 11 Jul 2024
Diagnosed : 16 Jul 2024 - Jonathan Hester

MILLER TRUCKING CORPORATION
 4650 MOUNTAIN LAKES BLVD
 REDDING, CA
 US 96003
 Contact: Service Manager

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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F: