



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 567 DT39
Component
Diesel Engine
Fluid
SHELL ROTELLA T3 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0003182	PE0002263	---
Sample Date		Client Info		10 May 2024	05 Oct 2023	---
Machine Age	hrs	Client Info		7543	6385	---
Oil Age	hrs	Client Info		490	470	---
Filter Age	hrs	Client Info		490	470	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	15	14	---
Chromium	ppm	ASTM D5185m	>4	1	<1	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	<1	0	---
Aluminum	ppm	ASTM D5185m	>25	4	6	---
Lead	ppm	ASTM D5185m	>45	<1	1	---
Copper	ppm	ASTM D5185m	>85	<1	2	---
Tin	ppm	ASTM D5185m	>4	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

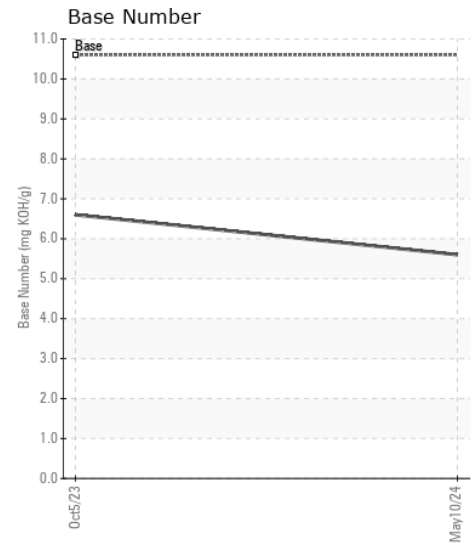
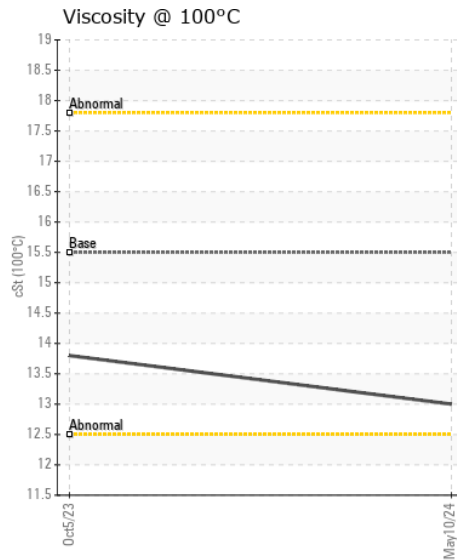
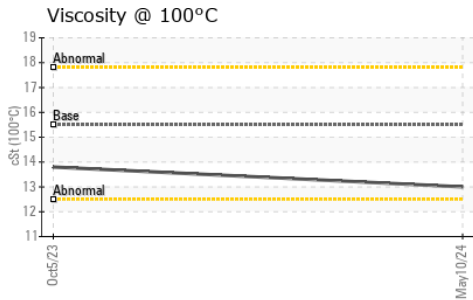
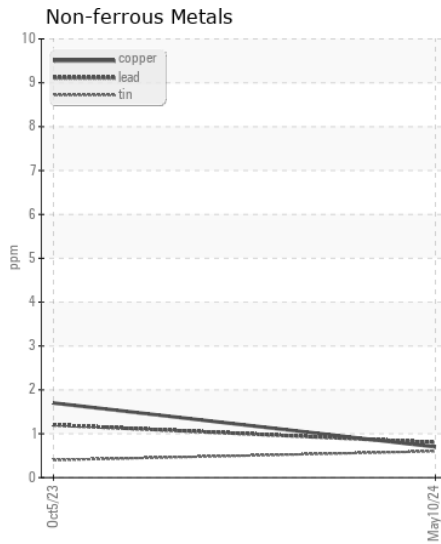
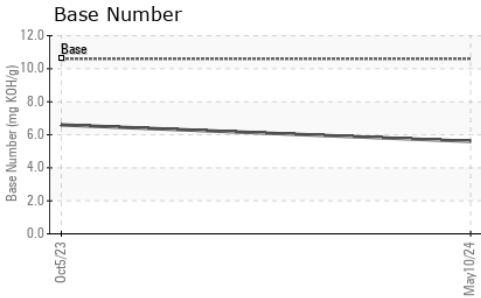
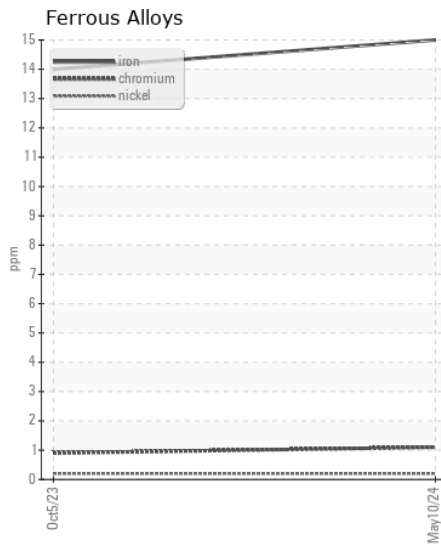
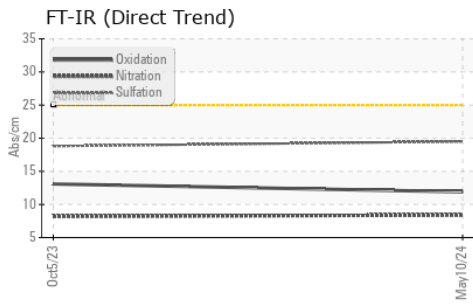
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	15	6	---
Potassium	ppm	ASTM D5185m	>20	8	10	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	18.8	---
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	---

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.

Sodium	ppm	ASTM D5185m		<1	2	---
Boron	ppm	ASTM D5185m	10	4	36	---
Barium	ppm	ASTM D5185m	0	0	3	---
Molybdenum	ppm	ASTM D5185m	10	3	30	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m	10	21	171	---
Calcium	ppm	ASTM D5185m	2600	2341	1887	---
Phosphorus	ppm	ASTM D5185m	1050	871	888	---
Zinc	ppm	ASTM D5185m	1250	1103	1057	---
Sulfur	ppm	ASTM D5185m	3900	3832	3073	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.9	13.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.6	5.6	6.6	---
Visc @ 100°C	cSt	ASTM D445	15.5	13.0	13.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0003182
Lab Number : 06188523
Unique Number : 11045275
Test Package : CONST (Additional Tests: FT-IR, ICP, KV100, SCREEN, TBN)

Received : 22 May 2024
Tested : 24 May 2024
Diagnosed : 28 May 2024 - Sean Felton

SCHERMER CONSTRUCTION
 299 US-101
 HOQUIAM, WA
 US 98550
 Contact: Service Manager
 office@schmermerconstruction.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: