

Machine Id
TRUCK 53 - P & L CONCRETE
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0081012	PCA05679412	---
Sample Date		Client Info		01 May 2024	17 Oct 2022	---
Machine Age	mls	Client Info		182862	13221	---
Oil Age	mls	Client Info		5000	0	---
Filter Age	mls	Client Info		5000	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				SEVERE	SEVERE	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	8	72	---
Chromium	ppm	ASTM D5185m	>20	<1	3	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	2	4	---
Lead	ppm	ASTM D5185m	>40	<1	2	---
Copper	ppm	ASTM D5185m	>330	1	4	---
Tin	ppm	ASTM D5185m	>15	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

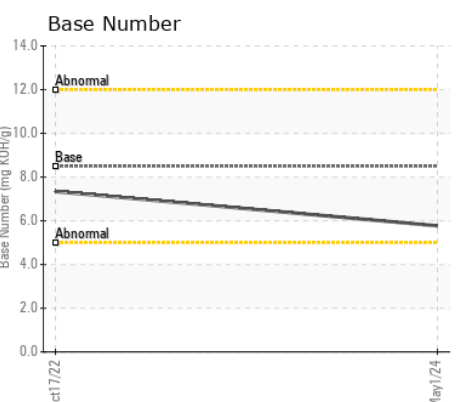
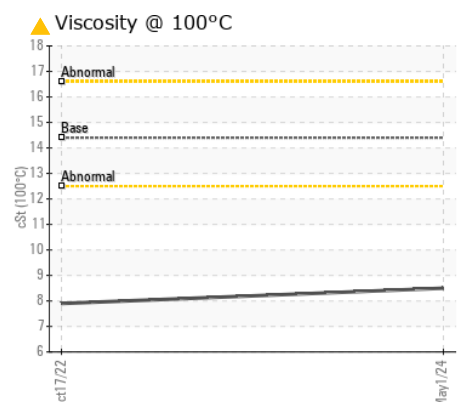
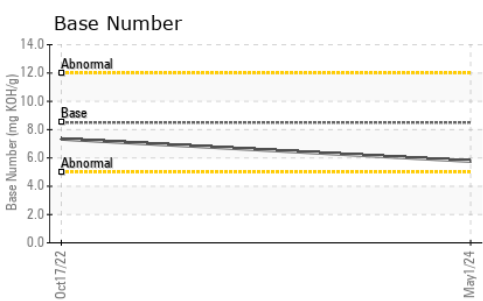
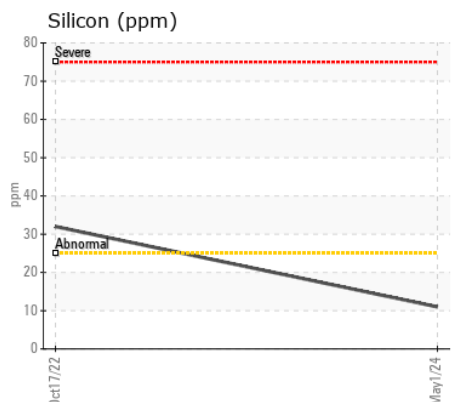
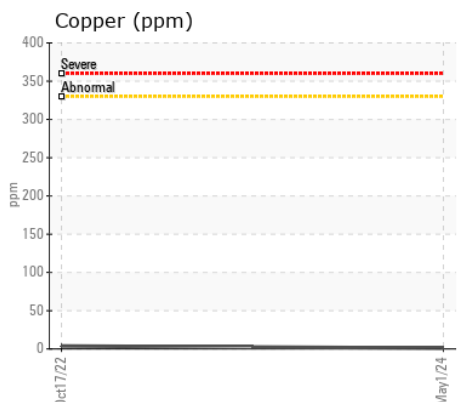
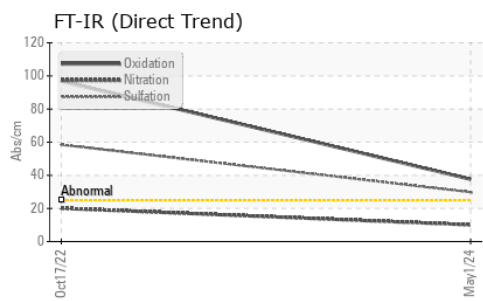
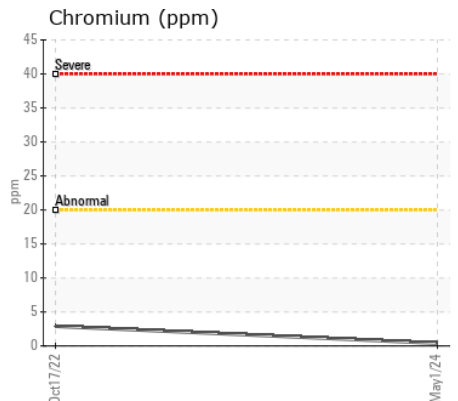
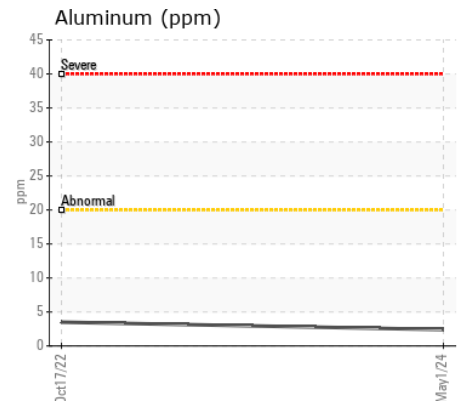
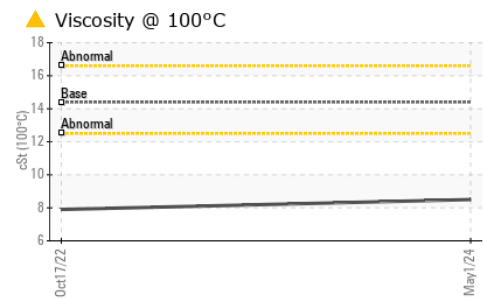
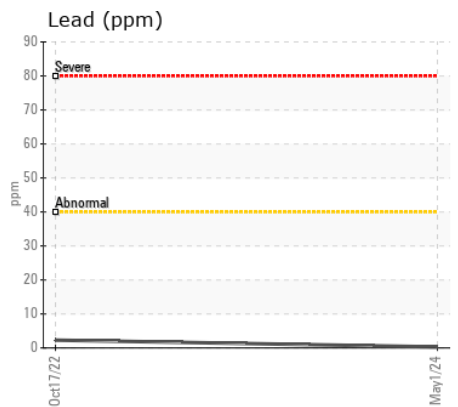
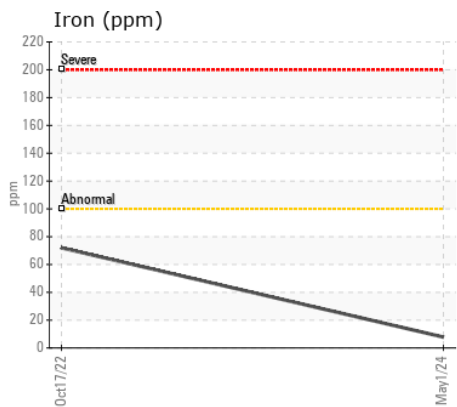
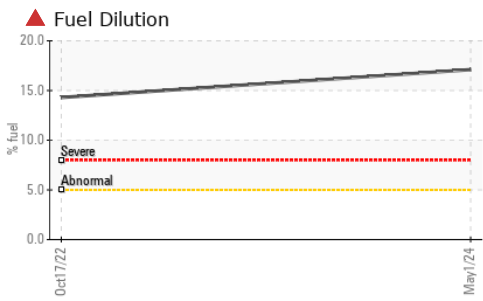
There is a high amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	11	32	---
Potassium	ppm	ASTM D5185m	>20	7	4	---
Fuel	%	ASTM D3524	>5	▲ 17.1	▲ 14.3	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.8	---
Nitration	Abs/cm	*ASTM D7624	>20	10.1	20.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.8	58.5	---
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

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>158	0	5	---
Boron	ppm	ASTM D5185m	250	32	0	---
Barium	ppm	ASTM D5185m	10	2	0	---
Molybdenum	ppm	ASTM D5185m	100	6	44	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m	450	538	714	---
Calcium	ppm	ASTM D5185m	3000	1251	825	---
Phosphorus	ppm	ASTM D5185m	1150	733	705	---
Zinc	ppm	ASTM D5185m	1350	739	937	---
Sulfur	ppm	ASTM D5185m	4250	2952	2233	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	37.6	96.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.77	7.34	---
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 8.5	▲ 7.9	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0081012 **Received** : 13 May 2024
Lab Number : 06177388 **Tested** : 17 May 2024
Unique Number : 11023441 **Diagnosed** : 17 May 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: PercentFuel)

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Certificate L2367
 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)