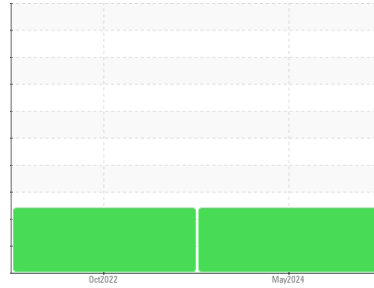


OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



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

DIAGNOSIS

▲ 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.

Wear

All component wear rates are normal.

▲ Contamination

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

▲ 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.

SAMPLE INFORMATION		method	limit/base	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	---
Oil Changed	Client Info			Changed	N/A	---
Sample Status				SEVERE	SEVERE	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
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	---
Cadmium	ppm	ASTM D5185m		<1	0	---

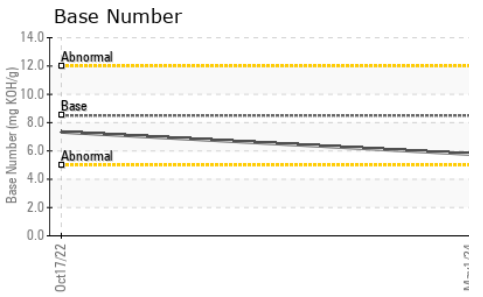
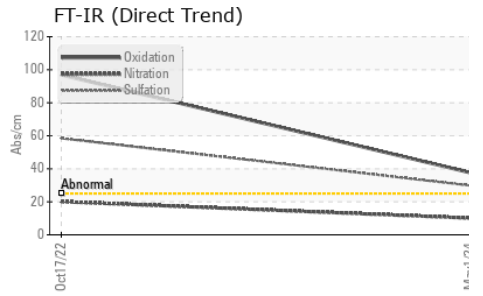
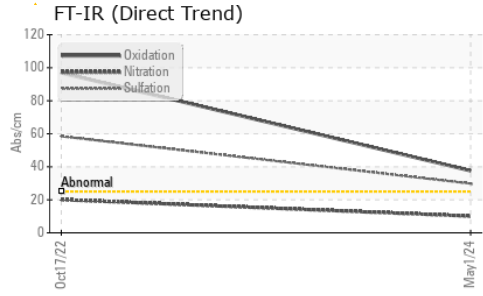
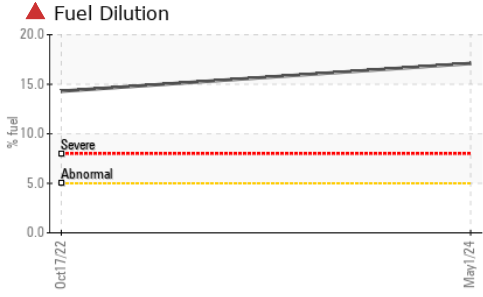
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	32	0	---
Barium	ppm	ASTM D5185m	10	2	0	---
Molybdenum	ppm	ASTM D5185m	100	6	44	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m	450	538	714	---
Calcium	ppm	ASTM D5185m	3000	1251	825	---
Phosphorus	ppm	ASTM D5185m	1150	733	705	---
Zinc	ppm	ASTM D5185m	1350	739	937	---
Sulfur	ppm	ASTM D5185m	4250	2952	2233	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	32	---
Sodium	ppm	ASTM D5185m	>158	0	5	---
Potassium	ppm	ASTM D5185m	>20	7	4	---
Fuel	%	ASTM D3524	>5	▲ 17.1	▲ 14.3	---

INFRA-RED		method	limit/base	current	history1	history2
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	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	37.6	96.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.77	7.34	---

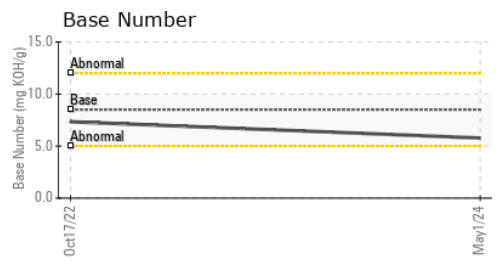
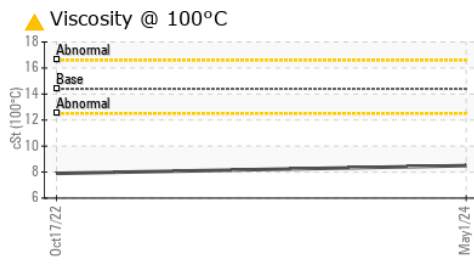
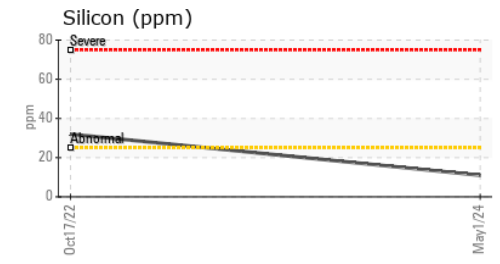
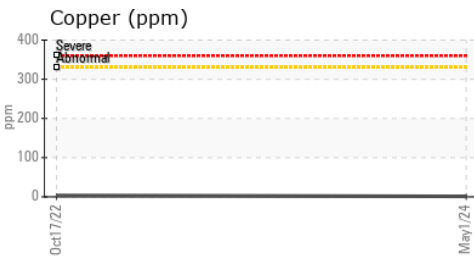
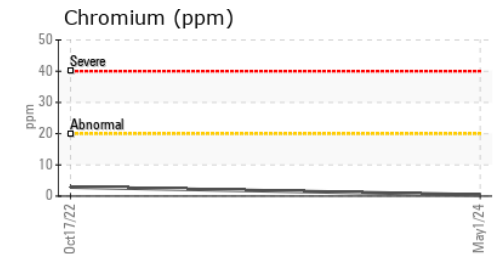
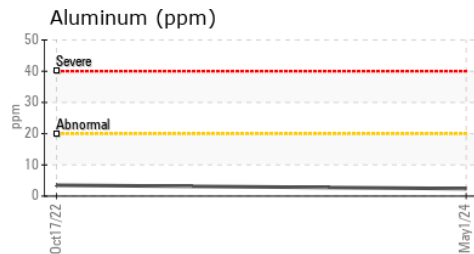
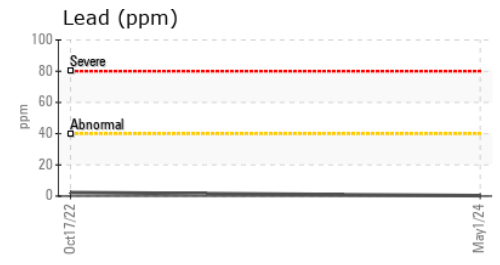
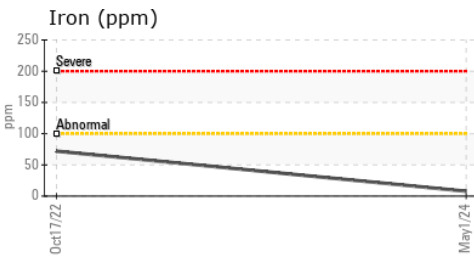
OIL ANALYSIS REPORT



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	14.4	▲ 8.5	▲ 7.9

GRAPHS



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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 marcey.lightfoot@vpss.net
 T: (209)461-3611
 F: (209)888-6196

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)