



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT TDI 1412
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0936311	WC0903397	WC0869209
Sample Date		Client Info		09 May 2024	22 Apr 2024	18 Oct 2023
Machine Age	mls	Client Info		501186	500855	0
Oil Age	mls	Client Info		0	25000	0
Filter Age	mls	Client Info		0	25000	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	SEVERE	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	3	10	10
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	4	1
Lead	ppm	ASTM D5185m	>45	2	11	4
Copper	ppm	ASTM D5185m	>85	5	▲ 51	4
Tin	ppm	ASTM D5185m	>4	1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

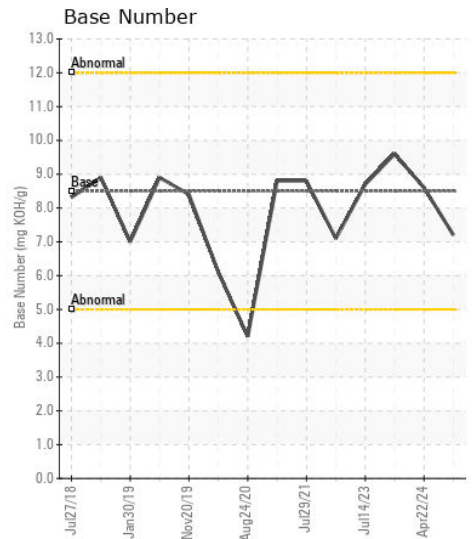
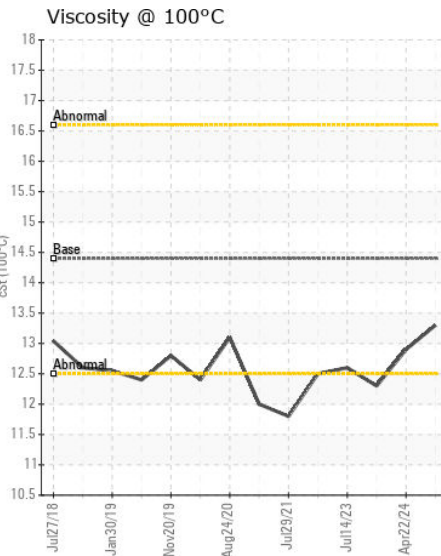
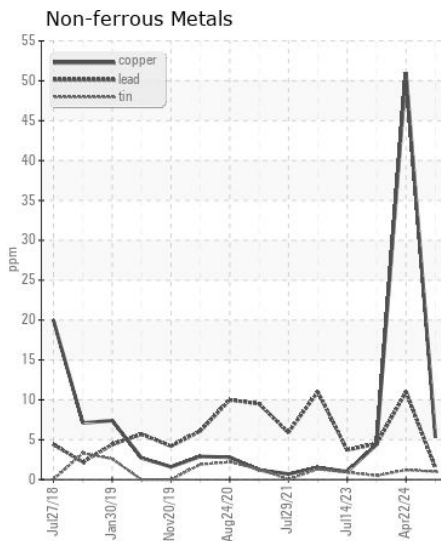
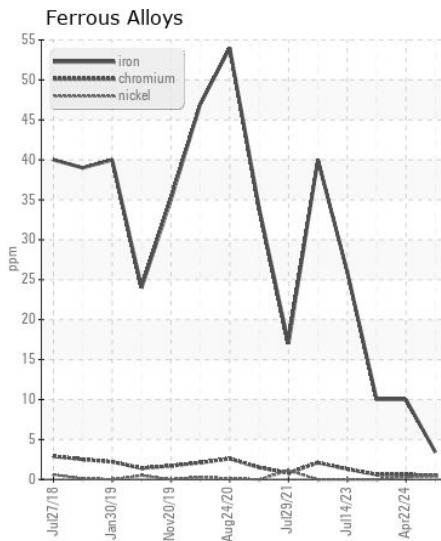
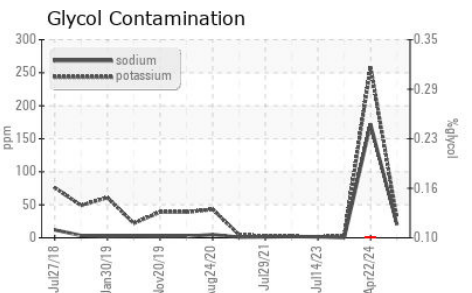
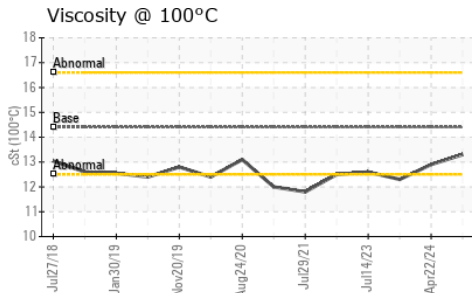
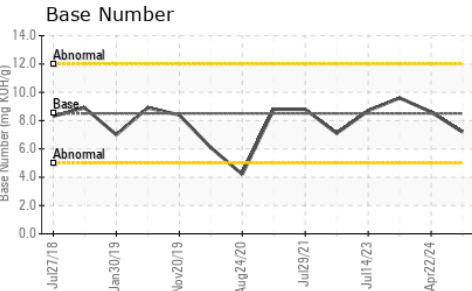
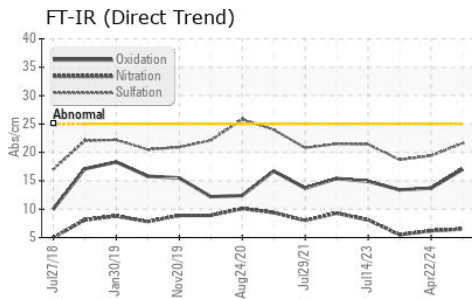
No evidence of coolant present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	7	7	5
Potassium	ppm	ASTM D5185m	>20	31	▲ 259	3
Fuel		WC Method	>5	<1.0	<1.0	0.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	▲ 0.10	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.2	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	19.4	18.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m	>158	20	▲ 172	0
Boron	ppm	ASTM D5185m	250	481	368	9
Barium	ppm	ASTM D5185m	10	0	2	0
Molybdenum	ppm	ASTM D5185m	100	92	122	63
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	450	432	406	857
Calcium	ppm	ASTM D5185m	3000	1402	1697	1070
Phosphorus	ppm	ASTM D5185m	1150	936	1207	991
Zinc	ppm	ASTM D5185m	1350	1204	1391	1126
Sulfur	ppm	ASTM D5185m	4250	3452	3982	3134
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	13.7	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.2	8.6	9.6
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	12.9	● 12.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936311 **Received** : 23 May 2024
Lab Number : 06190036 **Tested** : 30 May 2024
Unique Number : 11046788 **Diagnosed** : 30 May 2024 - Jonathan Hester
Test Package : FLEET

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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)