

OIL ANALYSIS REPORT

Machine Id **PETERBILT T100** Component **Diesel Engine** Filuid **TRC PRO-SPEC IV XP SYN BLEND 15W40 (11 GAL)**

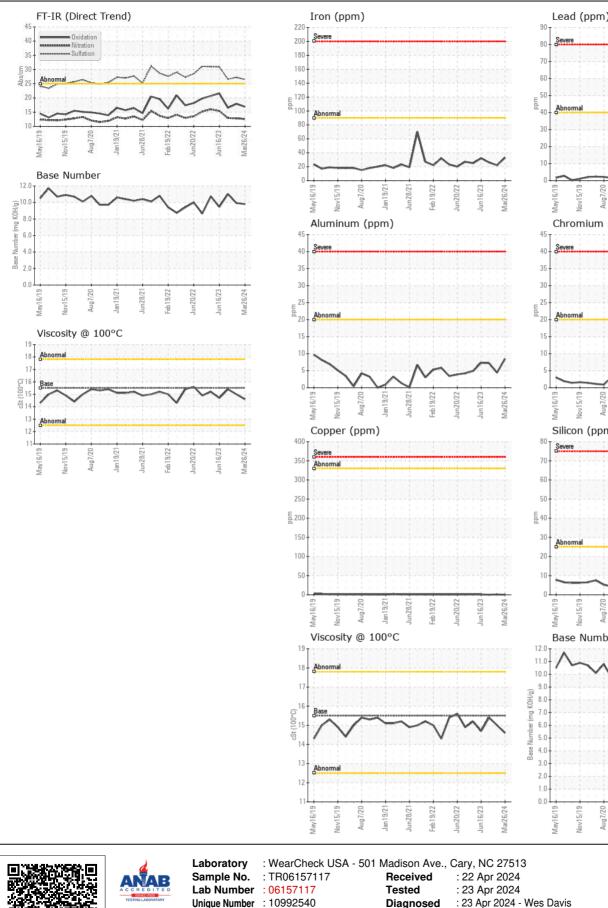
	·····						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06157117	TR06042722	TR05952280
	Sample Date		Client Info		26 Mar 2024	07 Dec 2023	08 Sep 2023
	Machine Age	mls	Client Info		439361	424147	408151
	Oil Age	mls	Client Info		15214	16000	15198
	Filter Age	mls	Client Info		15214	16000	15198
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>90	33	22	26
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	8	4	7
	Lead	ppm	ASTM D5185m	>40	1	3	1
	Copper	ppm	ASTM D5185m	>330	0	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	\ 25	6	6	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		4	2	6
There is no indication of any contamination in the oil.	Fuel	ppin	WC Method		۔ <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	1	1.3	1.1
	Nitration	Abs/cm	*ASTM D7624	>20	12.6	12.8	12.9
	Sulfation	Abs/.1mm	*ASTM D7415		26.5	27.2	26.6
	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	Sodium		ASTM D5185m		25	15	6
	Boron	ppm ppm	ASTM D5185m		25 4	15	44
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		5	9	15
	Manganese	ppm	ASTM D5185m		-5 <1	<1	<1
	Manganese	ppm	ASTM D5185m		63	105	112
	Calcium	ppm	ASTM D5185m		4217	3551	4239
	Phosphorus	ppm	ASTM D5185m		969	949	1014
	Zinc	ppm	ASTM D5185m		1108	1110	1198
	Sulfur	ppm	ASTM D5185m		4323	3610	4840
	Oxidation	Abs/.1mm	*ASTM D310311	>25	16.9	17.9	16.5
	Base Number (BN)		ASTM D2896	~	9.80	9.92	11.03
		- Cć		45.5	1.00	15.0	11.00

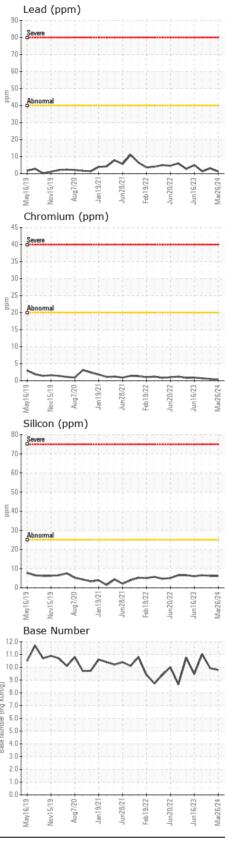
Visc @ 100°C cSt ASTM D445 15.5

15.0

15.4

14.6





MID-EAST TRUCKING 831 W. NASSAU ST. EAST CANTON, OH US 44730 Contact: JIM FITZGERALD shop@mideast.com T:

F:

* - 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)

Certificate L2367

Test Package : MOB 2

To discuss this sample report, contact Customer Service at 1-800-827-0711.

Contact/Location: JIM FITZGERALD - MIDEASTR Page 2 of 2