

Machine Id

PETERBILT 496665							
Component Diesel Engine							
Fluid							
CITGO CITGUARD 600 15W40 (48 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		RPL0004381	RPL0004162	
Resample at the next service interval to monitor.	Sample Date		Client Info		03 Jun 2024	13 Mar 2024	
	Machine Age	mls	Client Info		254526	11885	
	Oil Age	mls	Client Info		15478	916	
	Filter Age	mls	Client Info		15478	916	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron		ACTM DE105m	. 165	15	0	
	Iron	ppm	ASTM D5185m ASTM D5185m		15 <1	2	
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		0	<1 <1	
	Titanium	ppm ppm	ASTM D5185m		<1	1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		3	2	
	Lead	ppm	ASTM D5185m		2	0	
	Copper	ppm	ASTM D5185m		_ <1	0	
	Tin	ppm	ASTM D5185m		<1	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>35	4	4	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	
	Fuel	%	ASTM D3524	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.6	0.2	
	Nitration	Abs/cm	*ASTM D7624		10.0	7.4	
	Sulfation	Abs/.1mm	*ASTM D7415		22.3	19.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance Odor	scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	10	<1	1	
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.	Boron	ppm	ASTM D5185m		7	75	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m	5/	61	50	
	Manganese	ppm	ASTM D5185m	9.0E	<1	0	
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		495 1906	646 1238	
	Phosphorus	ppm ppm	ASTM D5185m		1908	765	
		ppill		500	1007	100	_

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

918

15.3

8.4

12.7

2850 ----

1384

3881

18.3

7.5

12.6

ASTM D5185m 1089

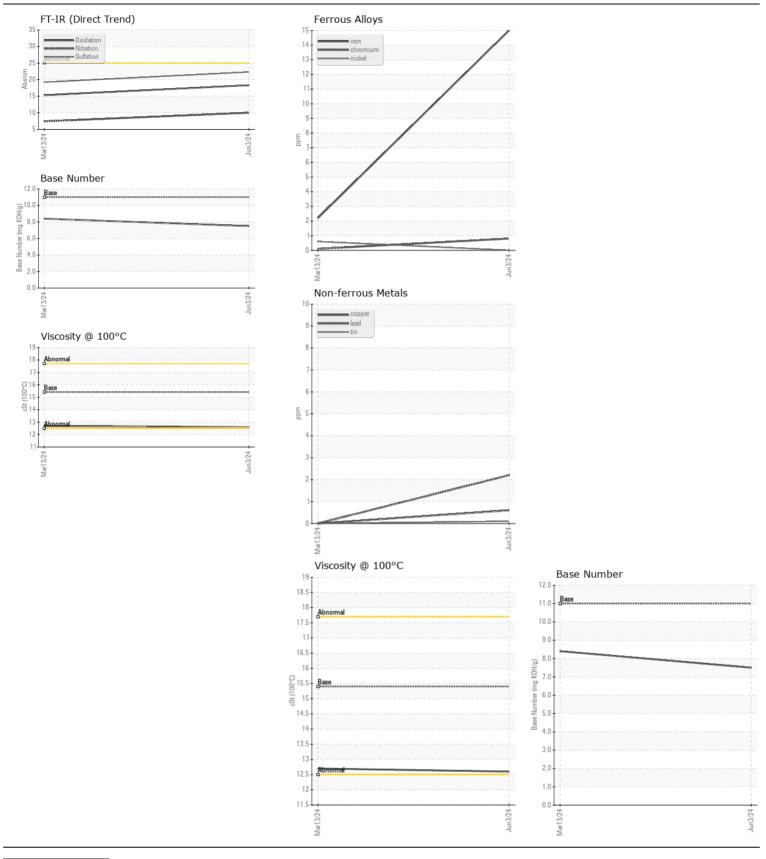
ASTM D445 15.4

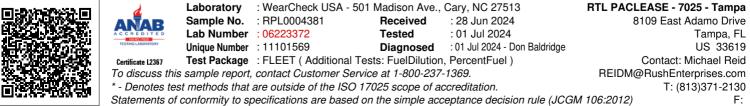
ppm ASTM D5185m 2769

Abs/.1mm *ASTM D7414 >25

ppm

Base Number (BN) mg KOH/g ASTM D2896 11.0





Submitted By: TECHNICIAN ACCOUNT Page 2 of 2