

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## [PAC7025] Machine Id PETERBILT 496499

## Diesel Engine

## CITGO CITGUARD 600 15W40 (48 QTS)

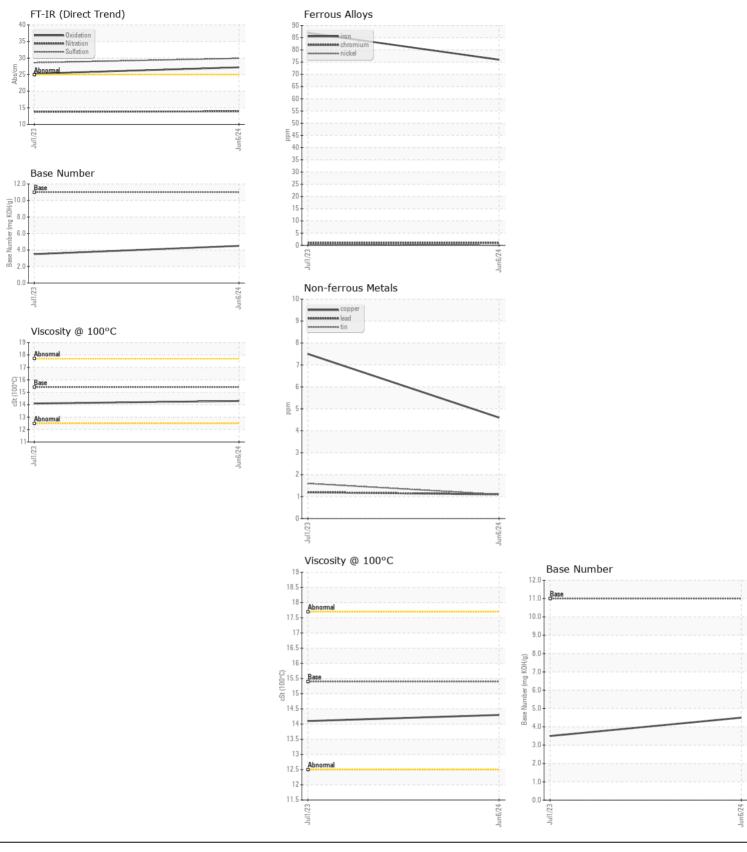
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		RPL0004222	RPL0004366	
	Sample Date		Client Info		06 Jun 2024	01 Jul 2023	
	Machine Age	mls	Client Info		145194	84975	
	Oil Age	mls	Client Info		60219	56492	
	Filter Age	mls	Client Info		60219	56492	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	76	87	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	1	
	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	<1	
	Aluminum	ppm	ASTM D5185m		14	31	
	Lead	ppm	ASTM D5185m		1	1	
	Copper	ppm	ASTM D5185m		5	8	
	Tin	ppm	ASTM D5185m		1	2	
	Vanadium	ppm	ASTM D5185m	10	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	<u>\</u> 25	13	15	
	Potassium	ppm	ASTM D5185m		32	95	
	Fuel	ppiii	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	20.2	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.8	0.7	
	Nitration	Abs/cm	*ASTM D7624		13.9	13.8	
	Sulfation	Abs/.1mm	*ASTM D7415		29.9	28.6	
	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		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	
	Boron	ppm	ASTM D5185m	13	4	15	
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.	Barium	ppm	ASTM D5185m		0	10	
	Molybdenum	ppm	ASTM D5185m		69	62	
	Manganese	ppm	ASTM D5185m		1	2	
	Magnesium	ppm	ASTM D5185m	825	485	481	
	Calcium	ppm	ASTM D5185m		2181	1758	
	Phosphorus	ppm	ASTM D5185m		1208	928	
	Zinc	ppm	ASTM D5185m		1551	1283	
	Sulfur	ppm	ASTM D5185m		3805	3363	
	Oxidation	Abs/.1mm	*ASTM D310311		27.2	25.3	
	Base Number (BN)	mg KOH/g			4.5	▲ 3.5	
		- Ot		45.4	4.0	- 0.0	

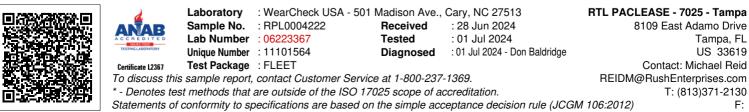
Visc @ 100°C cSt

ASTM D445 15.4

14.1

14.3





Submitted By: TECHNICIAN ACCOUNT Page 2 of 2