

## Machine Id **PETERBILT 272408** Componer **Diesel Engine** CASTROL VECTON 15W40 CK4 (23 QTS)

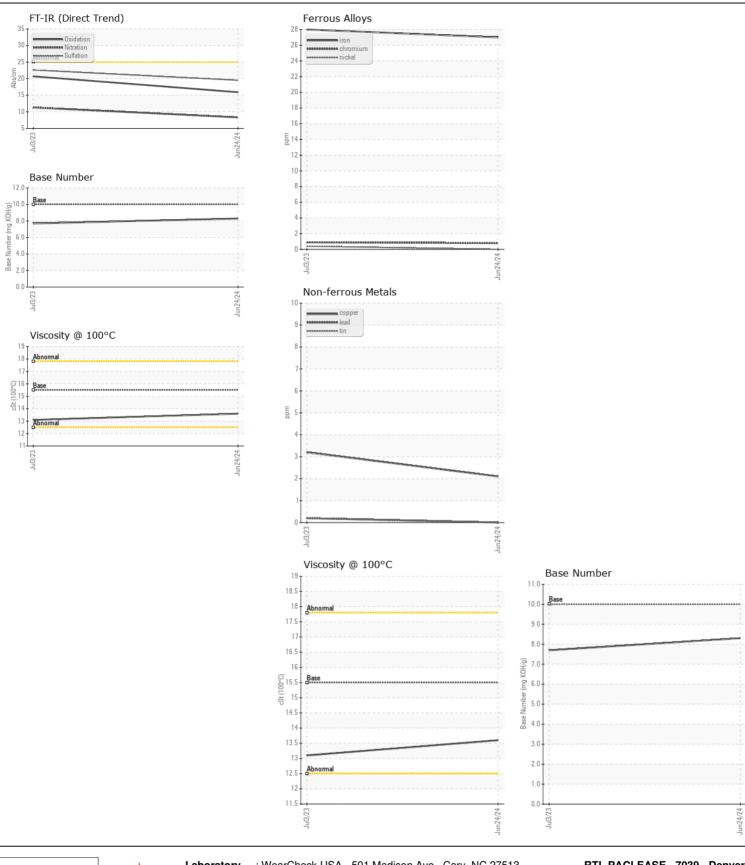
Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		RPL0011854	RPL0007550	
	Sample Date	mla	Client Info		24 Jun 2024	03 Jul 2023	
	Machine Age Oil Age	mls	Client Info Client Info		80091 5966	74125 15715	
	Filter Age	mls mls	Client Info		5966	15715	
	Oil Changed	11115	Client Info			Changed	
	Filter Changed		Client Info		Changed Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>90	27	28	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>2	0	<1	
	Titanium	ppm	ASTM D5185m	>2	<1	<1	
	Silver	ppm	ASTM D5185m	>2	<1	0	
	Aluminum	ppm	ASTM D5185m	>20	10	17	
	Lead	ppm	ASTM D5185m	>40	0	<1	
	Copper	ppm	ASTM D5185m	>330	2	3	
	Tin	ppm	ASTM D5185m	>15	0	<1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	11	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	21	
	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>6	0.3	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	11.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	22.6	
	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	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m		5	2	
	Boron	ppm	ASTM D5185m		39	9	_
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium		ASTM D5185m		0	0	
	Molybdenum	ppm ppm	ASTM D5185m		73	66	
	Manganese	ppm	ASTM D5185m		/3 <1	<1	
	Magnesium	ppm	ASTM D5185m		561	763	
	Calcium	ppm	ASTM D5185m		1681	1418	
	Phosphorus	ppm	ASTM D5185m		971	973	
	Zinc		ASTM D5185m		1138	1265	
	Sulfur	ppm	ASTM D5185m		3636	3690	
	Oxidation	ppm	*ASTM D5185111	>25	15.9	20.7	
	Base Number (BN)	Abs/.1mm			8.3	7.7	
				10	0.5	1.1	

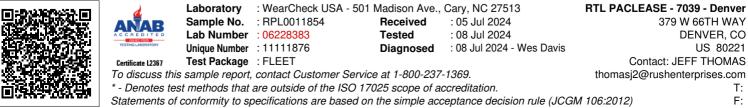
Visc @ 100°C cSt

13.1

13.6

ASTM D445 15.5





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