WEAR
CONTAMINATION
FLUID CONDITION

NORMAL NORMAL ATTENTION

OIL ANALYSIS REPORT

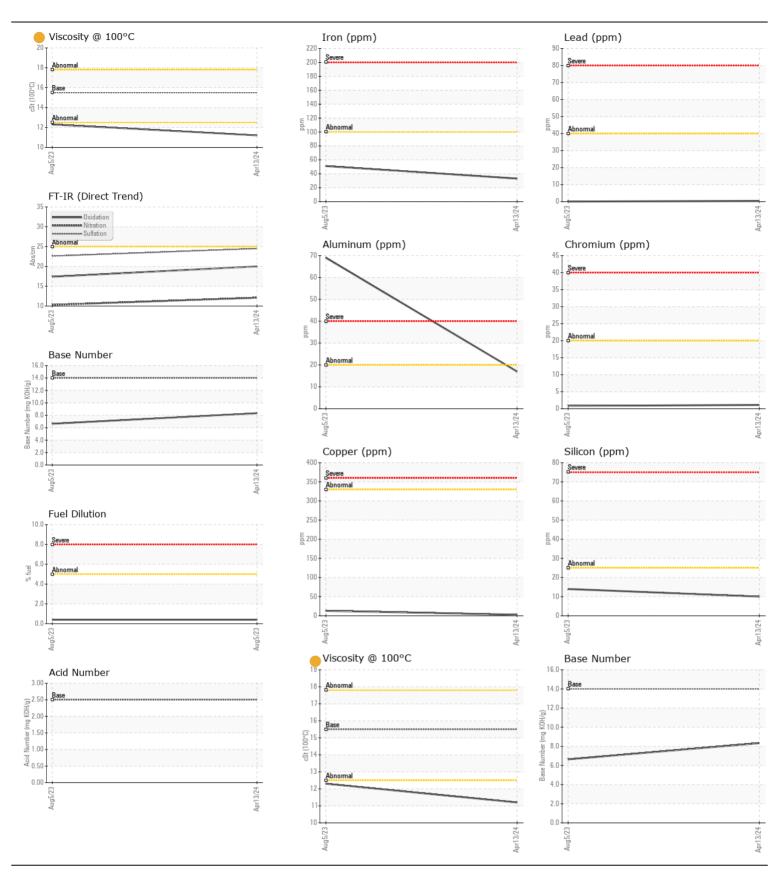
Machine Id

PETERBILT 389 125 (S/N 646706)

Diesel Engine

TRC PRO-SPEC IV SYN BI END SAF 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		TR06228138	TR06006549	
	Sample Date		Client Info		13 Apr 2024	05 Aug 2023	
	Machine Age	mls	Client Info		74800	24000	
	Oil Age	mls	Client Info		25000	0	
	Filter Age	mls	Client Info		25000	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				ATTENTION	ATTENTION	
VEAR	Iron	ppm	ASTM D5185m	>100	33	51	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		1	<1	
	Nickel		ASTM D5185m		- <1	0	
	Titanium	ppm	ASTM D5185m	>4	<1	0	
	Silver	ppm	ASTM D5185m	. 0	<1	0	
	Aluminum	ppm	ASTM D5185m		17	69	
	Lead	ppm	ASTM D5185m		- 17 -<1	0	
	Copper	ppm	ASTM D5185m		3	13	
	Tin	ppm	ASTM D5185m		ა <1	<1 <1	
	Vanadium	ppm		>10		0	
	White Metal	ppm scalar	*Visual	NONE	<1 NONE	NONE	
	Yellow Metal		*Visual	NONE	NONE	NONE	
<u> </u>		scalar	VISUAI	NONE	INOINE	INOINE	
Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	10	14	
	Potassium	ppm	ASTM D5185m	>20	40	189	
	Fuel	%	ASTM D3524	>5	<1.0	0.4	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	12.1	10.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	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	
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	4	
LOID CONDITION	Boron	ppm	ASTM D5185m	0	<1	24	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		<1	<1	
	Manganese	ppm	ASTM D5185m		<1	2	
	Magnesium	ppm	ASTM D5185m	9	22	670	
	Calcium	ppm	ASTM D5185m		4006	1760	
	Phosphorus	ppm	ASTM D5185m		773	779	
	Zinc	ppm	ASTM D5185m		967	917	
	Sulfur	ppm	ASTM D5185m		3527	3281	
	Oxidation	Abs/.1mm	*ASTM D3163111		20.0	17.4	
	Base Number (BN)		ASTM D7414 ASTM D2896		8.33	6.64	
	Dase Mullipel (DIV)	ilig KOH/g	49 LINI D5030	14	0.33	0.04	





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06228138 Lab Number : 06228138

Unique Number : 11111631

Received : 03 Jul 2024 **Tested** : 08 Jul 2024 Diagnosed

: 08 Jul 2024 - Angela Borella Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, TAN Man)

ZACHRY FARMS 15231 COUNTY FARM RD CARLYLE, IL US 62231

Contact: CHARLES FLATT

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

* - 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) T: F: