

Machine Id **PETERBILT 2420** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 5W30 (44 QTS)**

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

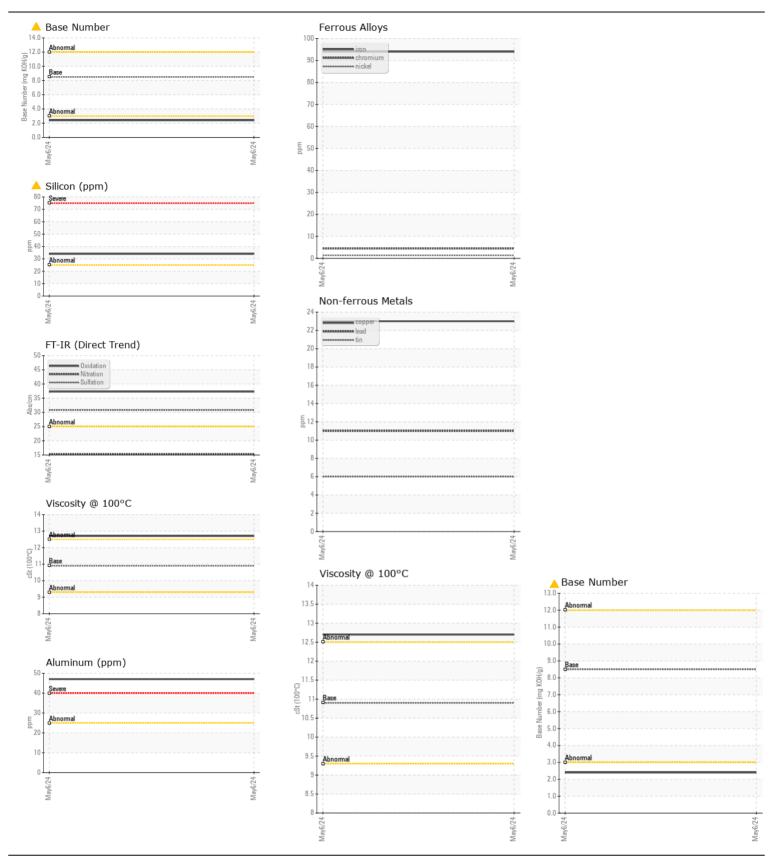
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UUI				

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. Elemental level of silicon (Si) above normal indicating ingress of seal material.

FLUID CONDITION

The BN level is low.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HRE0000238		
Sample Date		Client Info		06 May 2024		
Machine Age	mls	Client Info		112035		
Oil Age	mls	Client Info		50000		
Filter Age	mls	Client Info		50000		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>100	94		
Chromium	ppm	ASTM D5185m	>20	4		
Nickel	ppm	ASTM D5185m	>2	1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>25	47		
Lead	ppm	ASTM D5185m	>40	11		
Copper	ppm	ASTM D5185m	>330	23		
Tin	ppm	ASTM D5185m	>15	6		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Ciliaan			05	A 04		
Silicon	ppm	ASTM D5185m	>25	▲ 34		
Potassium Fuel	ppm	ASTM D5185m	>20	121		
		WC Method	>5 >0.2	<1.0		
Water		WC Method WC Method	>0.2	NEG NEG		
Glycol Soot %	%	*ASTM D7844	>3	0.6		
Nitration	Abs/cm	*ASTM D7624	>20	15.4		
Sulfation	Abs/.1mm	*ASTM D7024	>30	30.8		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water		*Visual	>0.2	NEG		
Sodium	ppm	ASTM D5185m		4		
Boron	ppm	ASTM D5185m	250	24		
Barium	ppm	ASTM D5185m	10	5		
Molybdenum	ppm	ASTM D5185m	100	66		
Manganese	ppm	ASTM D5185m		6		
Magnesium	ppm	ASTM D5185m	450	578		
Calcium	ppm	ASTM D5185m	3000	1618		
Phosphorus	ppm	ASTM D5185m	1150	1011		
Zinc	ppm	ASTM D5185m	1350	1319		
Sulfur	ppm	ASTM D5185m	4250	3046		
Oxidation	Abs/.1mm	*ASTM D7414	>25	37.3		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	2 .4		
Visc @ 100°C	cSt	ASTM D445	10.9	12.7		



MABE TRUCKING Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received PO BOX 1081 : HRE0000238 : 13 May 2024 Lab Number : 06178146 EDEN, NC Tested : 14 May 2024 : 15 May 2024 - Sean Felton Unique Number : 11029472 US 27289 Diagnosed Test Package : FLEET Contact: MAINTENANCE Certificate L2367 maintenancemanager@mabetrucking.com To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)635-1791

Contact/Location: MAINTENANCE ? - MABEDE Page 2 of 2