

OIL ANALYSIS REPORT

DIRT

Machine Id

PETERBILT 2420

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 5W30 (44 QTS)

DIAGNOSIS

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.

Contamination

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.

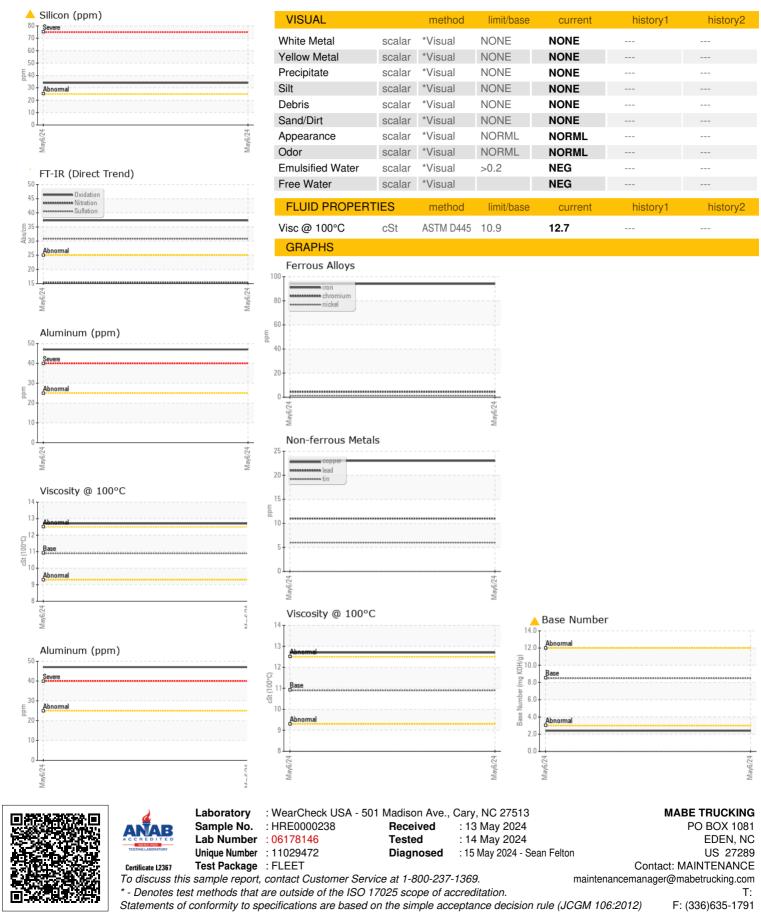
Fluid Condition

The BN level is low.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HRE0000238		
Sample Date		Client Info		06 May 2024		
Machine Age	mls	Client Info		112035		
Dil Age	mls	Client Info		50000		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	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		
Гin	ppm	ASTM D5185m	>15	6		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	24		
Barium	ppm	ASTM D5185m	10	5		
Molybdenum	ppm	ASTM D5185m	100	66		
Vanganese	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		
CONTAMINANTS		method	limit/base	current	history1	history2
			~ -			
Silicon	ppm	ASTM D5185m	>25	A 34		
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	▲ 34 4		
Sodium			>25 >20			
Sodium	ppm	ASTM D5185m		4		
Sodium Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m	>20	4 121		
Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m method	>20 limit/base	4 121 current		 history2
Sodium Potassium INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base >3	4 121 current 0.6	 history1	 history2
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624	>20 limit/base >3 >20	4 121 current 0.6 15.4	 history1 	 history2
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20 >30	4 121 current 0.6 15.4 30.8	 history1 	 history2



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Contact/Location: MAINTENANCE ? - MABEDE