

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

PETERBILT 5

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

🔺 Wear

The copper level is abnormal. Elemental level of copper (Cu) probably due to leaching of copper from copper components (i.e. cooling core) by the oil additives. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

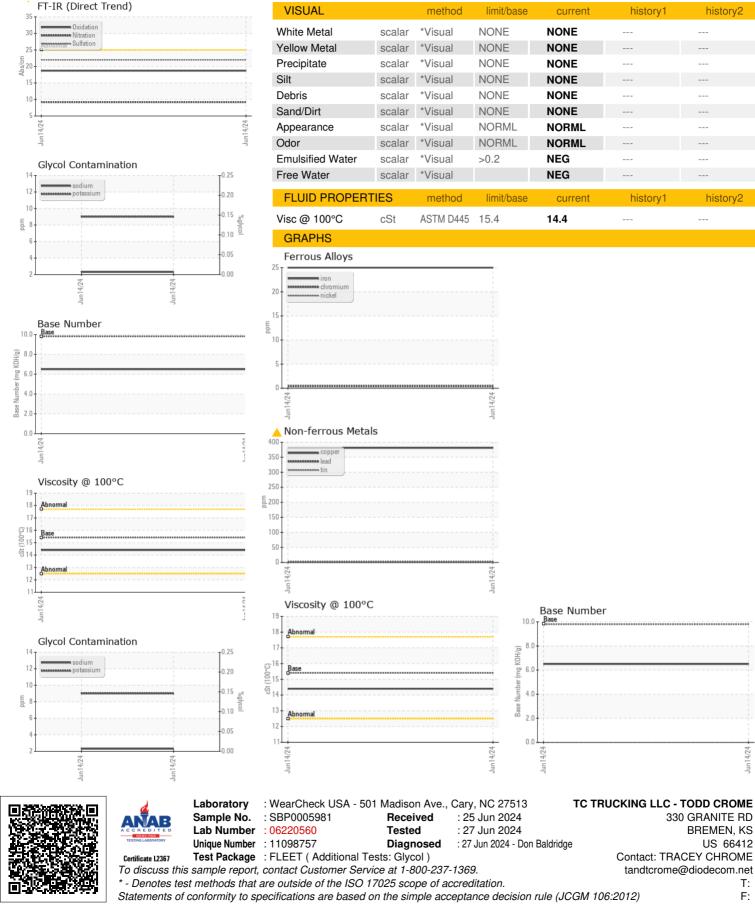
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0005981		
Sample Date		Client Info		14 Jun 2024		
Machine Age	mls	Client Info		510396		
Oil Age	mls	Client Info		24204		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	25		
Chromium	ppm	ASTM D5185m		<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>40	- <1		
Copper	ppm	ASTM D5185m		▲ 381		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m	210	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	le le	method	limit/base	current	history1	history2
Boron	nom	ASTM D5185m	0	52		
Barium	ppm	ASTM D5185m	0	52 0		
	ppm		60	11		
Molybdenum	ppm	ASTM D5185m	0	<1		
Manganese	ppm	ASTM D5185m	1010			
Magnesium	ppm	ASTM D5185m		188		
Calcium	ppm	ASTM D5185m	1070	2157		
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	1150 1270	992 1245		
Sulfur	ppm	ASTM D5185m	2060	3736		
	ppm					
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	9		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>3	0.3		
Soot %	A In	*ASTM D7624	>20	9.2		
Soot % Nitration	Abs/cm					
Nitration	Abs/cm Abs/.1mm	*ASTM D7415	>30	22.0		
Nitration	Abs/.1mm		>30 limit/base	22.0 current	 history1	history2
Nitration Sulfation	Abs/.1mm	*ASTM D7415				



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