

OIL ANALYSIS REPORT



Machine Id

PETERBILT 14029

Component Diesel Engine Fluid TULCO LUBSOIL CK-4 15W40 (12 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All 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 INFORMATION method	l limit/base	current	history1	history2
Sample Number Client Inf	0	TO10003483		
Sample Date Client Inf	0	09 Apr 2024		
Machine Age hrs Client Inf	0	9230		
Oil Age hrs Client Inf	0	502		
Oil Changed Client Inf	0	Changed		
Sample Status		NORMAL		
CONTAMINATION method	l limit/base	current	history1	history2
Fuel WC Metho	od >3.0	<1.0		
Water WC Metho	od >0.2	NEG		
Glycol WC Metho	bd	NEG		
WEAR METALS method	l limit/base	current	history1	history2
Iron ppm ASTM D5185	im >165	14		
Chromium ppm ASTM D5185	im >5	<1		
Nickel ppm ASTM D5185	5m >4	0		
Titanium ppm ASTM D5185	im >2	0		
Silver ppm ASTM D5185	5m >2	0		
Aluminum ppm ASTM D5185	5m >20	3		
Lead ppm ASTM D5185	5m >150	2		
Copper ppm ASTM D5185	5m >90	1		
Tin ppm ASTM D5185	im >5	1		
Vanadium ppm ASTM D5185	ām	<1		
Cadmium ppm ASTM D5185	ōm	0		
ADDITIVES method	l limit/base	current	history1	history2
Boron ppm ASTM D5185	ōm	36		
Barium ppm ASTM D5185	ām	0		
Molybdenum ppm ASTM D5185	im 65	70		
Manganese ppm ASTM D5185	ām	<1		
Magnesium ppm ASTM D5185	5m 1060	41		
Calcium ppm ASTM D5185	5m 1140	2368		
Phosphorus ppm ASTM D5185	5m 1170	1014		
Zinc ppm ASTM D5185	5m 1230	1118		
Sulfur ppm ASTM D5185	5m 3130	5519		
CONTAMINANTS method	l limit/base	current	history1	history2
CONTAMINANTS method Silicon ppm ASTM D5188		current 5	history1	history2
	im >35		history1 	
Silicon ppm ASTM D5188	ōm >35 ōm	5		
SiliconppmASTM D5183SodiumppmASTM D5183PotassiumppmASTM D5183INFRA-REDmethod	im >35 im im >20 limit/base	5 3 3 current		
SiliconppmASTM D5182SodiumppmASTM D5182PotassiumppmASTM D5182INFRA-REDmethodSoot %%*ASTM D782	im >35 im ////////////////////////////////////	5 3 3 current 0.2		
SiliconppmASTM D5188SodiumppmASTM D5188PotassiumppmASTM D5188INFRA-REDmethodSoot %%*ASTM D78NitrationAbs/cm*ASTM D76	im >35 im >20 im >20 imit/base 44 >7.5 24 >20	5 3 3 current 0.2 11.3	 history1	 history2
SiliconppmASTM D5182SodiumppmASTM D5182PotassiumppmASTM D5182INFRA-REDmethodSoot %%*ASTM D782	im >35 im >20 im >20 imit/base 44 >7.5 24 >20	5 3 3 current 0.2	 history1	 history2
SiliconppmASTM D5188SodiumppmASTM D5188PotassiumppmASTM D5188INFRA-REDmethodSoot %%*ASTM D78NitrationAbs/cm*ASTM D76	im >35 im >20 im >20 imit/base 44 >7.5 24 >20 15 >30	5 3 3 current 0.2 11.3	 history1 	 history2
Silicon ppm ASTM D5188 Sodium ppm ASTM D5188 Potassium ppm ASTM D5188 INFRA-RED method Soot % % *ASTM D78 Nitration Abs/cm *ASTM D76 Sulfation Abs/.1mm *ASTM D74	im >35 im >20 limit/base 44 >7.5 24 >20 15 >30 limit/base	5 3 3 current 0.2 11.3 21.5	 history1 	 history2



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SqP 20

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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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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