

OIL ANALYSIS REPORT

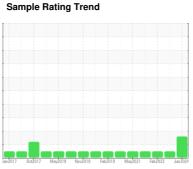
WEAR



PETERBILT PB348 RTK9744 (S/N 2NP3LJ0X4HM417295)

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Ring and cylinder wear is indicated.

Contamination

There is no indication of any contamination in the oil.

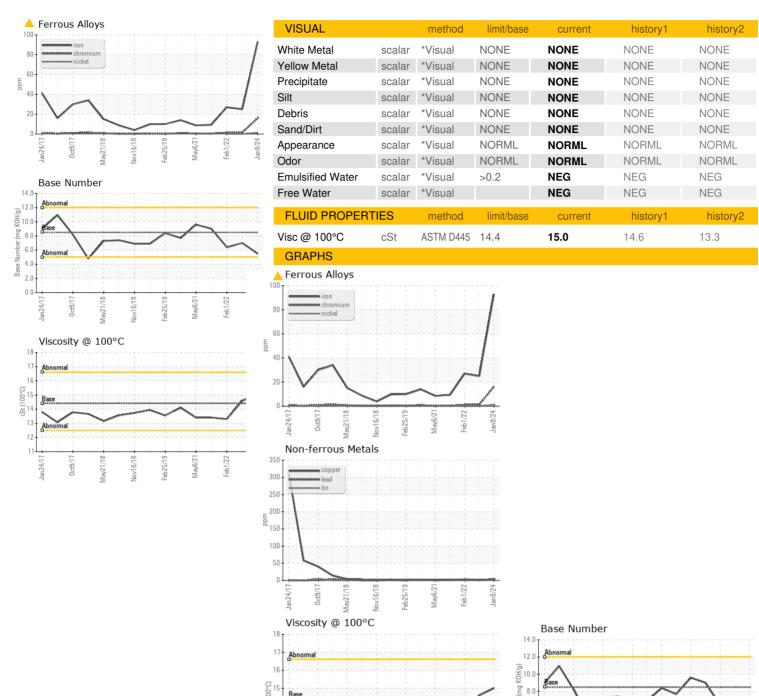
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ARI0006397	ARI0006370	ARI0005278
Sample Date		Client Info		08 Jan 2024	09 Mar 2023	01 Feb 2022
Machine Age	mls	Client Info		122182	122500	95714
Oil Age	mls	Client Info		6480	30000	9305
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	7 0.12	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
			>100			
Iron	ppm	ASTM D5185m		▲ 93 ▲ 16	25	27 1
Chromium Nickel	ppm	ASTM D5185m ASTM D5185m	>20 >4	▲ 16 1	0	0
Titanium	ppm	ASTM D5185m	> 4	। <1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m		7	4	5
Lead	ppm	ASTM D5185m	>40	3	<1	2
Copper	ppm	ASTM D5185m	>330	3	2	3
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	38	29	6
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	69	62	67
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	450	895	643	1059
Calcium	ppm	ASTM D5185m	3000	1304	1676	1306
Phosphorus	ppm	ASTM D5185m	1150	1062	935	1077
Zinc	ppm	ASTM D5185m	1350	1367	1300	1351
Sulfur	ppm	ASTM D5185m	4250	3105	3349	2588
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	6	5
Sodium	ppm	ASTM D5185m	>158	3	3	0
Potassium	ppm	ASTM D5185m	>20	4	5	6
		method	limit/base	current	history1	history2
INFRA-RED						
Soot %	%	*ASTM D7844	>3	0.9	0.6	0.7
	% Abs/cm	*ASTM D7844 *ASTM D7624	>3 >20	0.9 16.0	0.6 15.0	0.7 16.9
Soot %						
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	16.0	15.0	16.9
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	16.0 30.5	15.0 25.6	16.9 30.2



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Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: 06074448 : 10856539 Test Package : CONST (Additional Tests: TBN)

(St (100°C)

: ARI0006397

0ct9/17

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 30 Jan 2024 Recieved Diagnosed : 01 Feb 2024

Feb1/22 -

6.0 Sase 2.0 0.0

0ct9/17

: Jonathan Hester Diagnostician

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.

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

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