

OIL ANALYSIS REPORT

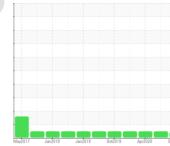
Sample Rating Trend

NORMAL

PETERBILT 348 RTK9844 TK (S/N 2NP3XJ0X8HM443144)

Diesel Engine

DIESEL ENGINE OIL SAE 40 (9 QTS)





Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

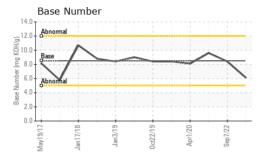
Fluid Condition

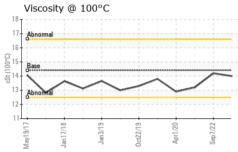
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		May2017	Jan 2018 Jan 2019	Oct2019 Apr2020 Se	p2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ARI06124513	ARI05636243	ARI05050489
Sample Date		Client Info		20 Mar 2024	07 Sep 2022	24 Aug 2020
Machine Age	hrs	Client Info		10461	8041	3065
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINATION		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		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	11	6	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	2
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	3	2	9
Lead	ppm	ASTM D5185m	>45	<1	<1	2
Copper	ppm	ASTM D5185m	>85	3	<1	1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Antimony	ppm	ASTM D5185m				2
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	86	166	297
Barium	ppm	ASTM D5185m	10	1	0	0
Molybdenum	ppm	ASTM D5185m	100	4	14	110
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	201	92	596
Calcium	ppm	ASTM D5185m	3000	2098	1992	1493
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	1150	843 1049	908	754 823
Sulfur	ppm	ASTM D5185m	1350 4250	3573	3215	2060
	ppm					
CONTAMINANTS		method	limit/base	current	history1 3	history2 6
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>30 >216	5 1	2	3
Potassium		ASTM D5185m	>210	6	6	<1
	ppm					
INFRA-RED	0/	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.4	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	22.8	23.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.8	19.4	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.1	8.4	9.6



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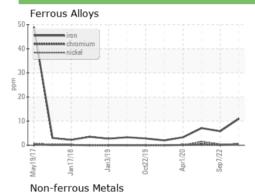


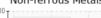


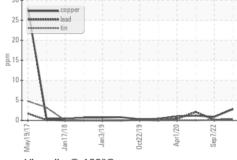
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
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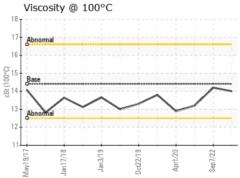
FLUID PROPER	THES	method			riistory i	riistoryz
Visc @ 100°C	cSt	ASTM D445	14.4	14.0	14.2	13.2

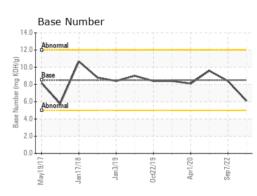
GRAPHS















Laboratory Sample No.

Lab Number : 06124513

: ARI06124513

Unique Number: 10938664 Test Package : CONST (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Mar 2024 **Tested** : 21 Mar 2024

Diagnosed : 21 Mar 2024 - Wes Davis

INSITUFORM TECHNOLOGIES, INC 17988 EDISON AVE. CHESTERFIELD, MO US 63005

Contact: JOHN SLOAN ARICHTER@INSITUFORM.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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (314)280-7555 F:

Report Id: AR5202CHE [WUSCAR] 06124513 (Generated: 03/21/2024 19:54:34) Rev: 1