

## 2H28 Machine Id PETERBILT 348 RTK9953 REEFER (S/N 2NP3LJ0X4JM467281)

## Component Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		ARI06124515	ARI05984371	ARI05925876
	Sample Date		Client Info		20 Mar 2024	19 Oct 2023	15 Aug 2023
	Machine Age	hrs	Client Info		11814	11469	10950
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<u>\110</u>	2	0	2
WEAN	Chromium	ppm	ASTM D5185m		<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	~_	۰ <1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		3	<1	2
	Lead	ppm	ASTM D5185m		۲ ۲	0	<1
	Copper	ppm	ASTM D5185m		1	0	0
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m	21	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
						HOHL	HONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	3	2	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	6	4	5
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.4	6.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	19.3	20.1
	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
FLUID CONDITION	Sodium	nnm	ASTM D5185m	> 216	<1	1	2
FLUID CONDITION	Boron	ppm	ASTM D5185m		164	154	164
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		104	0	0
	Molybdenum	ppm ppm	ASTM D5185m		1	0	2
	Manganese	ppm	ASTM D5185m	100	0	0	<1
	Magnesium	ppm	ASTM D5185m	450	17	24	56
	Calcium	ppm	ASTM D5185m		2152	2132	2149
	Phosphorus	ppm	ASTM D5185m		938	1005	995
	Zinc	ppm	ASTM D5185m		1127	1209	1239
	Sulfur	ppm	ASTM D5185m		3709	3550	4422
	Oulidation	ppm AL / A		1200	103	0000	107

Oxidation

Visc @ 100°C cSt

15.4

7.2

13.5

16.1

7.6

13.3

Abs/.1mm \*ASTM D7414 >25

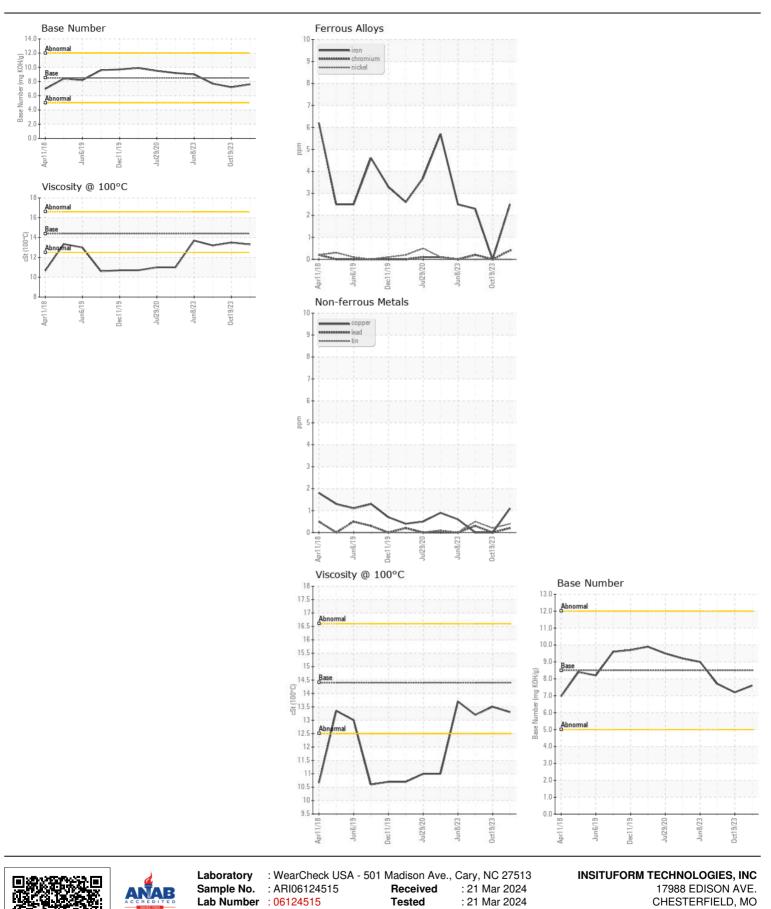
ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5

16.7

7.7

13.2



: 21 Mar 2024 - Wes Davis Unique Number : 10938666 Diagnosed Test Package : CONST (Additional Tests: TBN) Contact: JOHN SLOAN Certificate L2367 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. T: (314)280-7555 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F:

US 63005