

Machine Id **THERMO KING S-600 RTR8432 - TK (S/N 60011G1G2G)** Component **Diesel Engine**

DIESEL ENGINE OIL SAE 40 (12 QTS)

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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		ARI06237529	ARI06099561	ARI04392166
	Sample Date		Client Info		15 Jul 2024	25 Feb 2024	09 Jan 2018
	Machine Age	hrs	Client Info		17666	17169	0
	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	>100	2	3	3
	Chromium	ppm	ASTM D5185m		0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m	- 1	0	<1	<1
	Silver	ppm	ASTM D5185m	-3	0	0	0
	Aluminum	ppm	ASTM D5185m		<1	1	2
	Lead		ASTM D5185m		0	<1	<1
	Copper	ppm ppm	ASTM D5185m		0	0	<1
	Tin		ASTM D5185m		0	0	0
		ppm		>10			
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	2	6	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	5	0	9
	Fuel		WC Method	>5	<1.0	0.6	<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
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	6.1	5.
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	16.8	15.
	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	ppm	ASTM D5185m	>216	5	3	3
The DN second technologies that the second s	Boron	ppm	ASTM D5185m	250	139	37	12
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	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	9	48	54
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	56	197	947
	Calcium	ppm	ASTM D5185m		2280	1996	1116
	Phosphorus	ppm	ASTM D5185m	1150	994	926	966
	Zinc	ppm	ASTM D5185m		1153	1026	1051
	Sulfur	ppm	ASTM D5185m		4033	3210	2758
	O delettere	AL / 4	*****	05	40.4	0.0	10

Oxidation

Visc @ 100°C cSt

9.2

8.0

12.0

12.

9.23

14.38

16.1

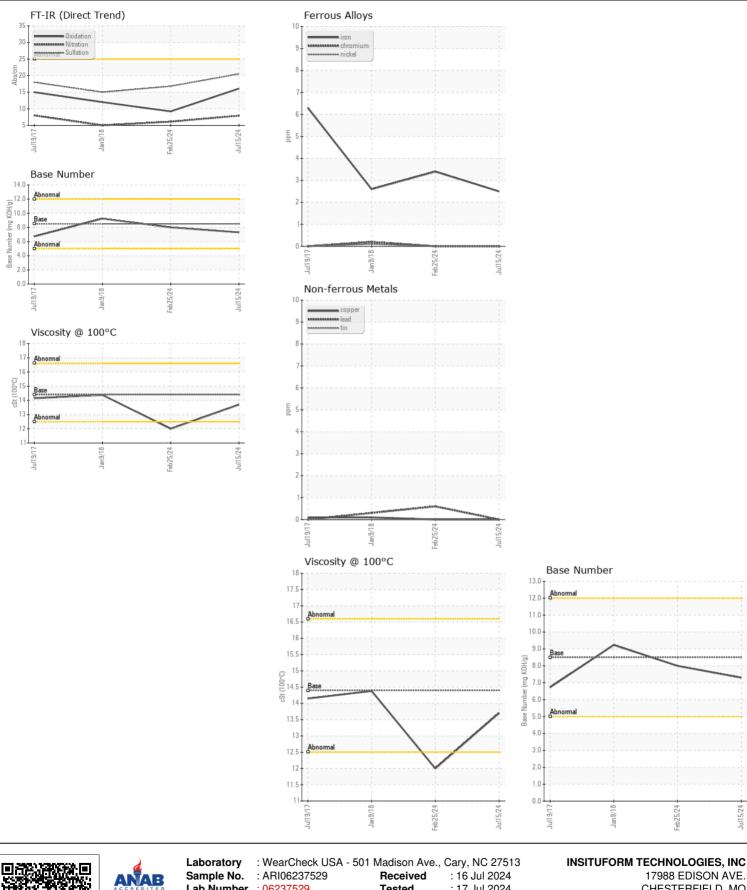
7.3

13.7

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.4

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



Lab Number : 06237529 Tested CHESTERFIELD, MO : 17 Jul 2024 Unique Number : 11126363 Diagnosed : 17 Jul 2024 - Wes Davis US 63005 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: