

Machine Id STERLING OT71 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (12 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		CL0005364	CL0004909	CL0004391
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		20 Apr 2024	19 Nov 2023	20 Jun 2023
brand, type, and viscosity of the off off your next sample.	Machine Age	mls	Client Info		497832	484095	473650
	Oil Age	mls	Client Info		13737	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	14	12	15
	Chromium	ppm	ASTM D5185m		<1	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m	~ 1	0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	4	3
	Lead	ppm	ASTM D5185m		- <1	<1	1
	Copper	ppm	ASTM D5185m		<1	1	2
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	7	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	2	3
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		1.3	1.4	1.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.0	9.6
	Sulfation	Abs/.1mm	*ASTM D7415		21.3	21.7	22.9
	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	2	3	0
	Boron	ppm	ASTM D5185m	250	16	20	35
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m	10	0	0	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m	100	65	71	77
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	421	512	481
	Calcium	ppm	ASTM D5185m	3000	2187	1652	2001
	Phosphorus	ppm	ASTM D5185m	1150	1056	1133	1186
	Zinc	ppm	ASTM D5185m	1350	1385	1254	1429
	Sulfur	ppm	ASTM D5185m	4250	4413	3383	3997
	Oxidation		*ASTM D7414		14.7	15.3	18.5
	Dese Niensleen (DNI)	L/OLL/	AOTH DOOOD	0.5	0.4	~ =	0.0

8.7

14.7

8.0

14.4

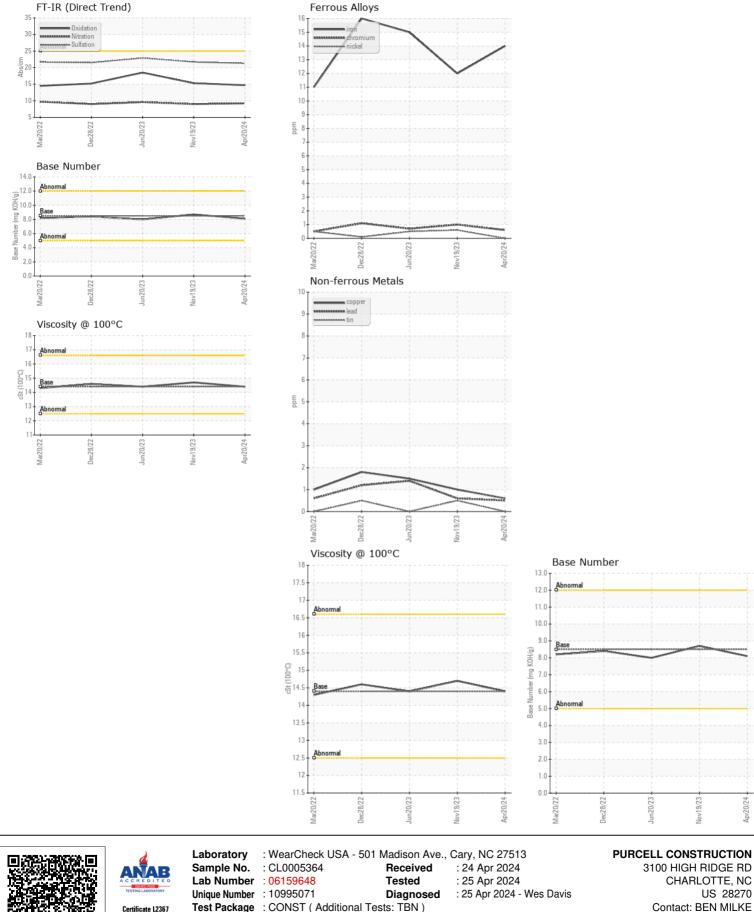
8.1

14.4

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

ASTM D445 14.4

Visc @ 100°C cSt



- Test Package : CONST (Additional Tests: TBN) Certificate L2367
- 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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