

## **OIL ANALYSIS REPORT**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR03991036	TR03935845	TR0375301
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		23 May 2016	06 Mar 2016	01 Jun 201
	Machine Age	mls	Client Info		0	968477	904539
	Oil Age	mls	Client Info		0	79755	15817
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Not Changd	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	NORMAL	NORMA
WEAR	Iron	ppm	ASTM D5185m	>100	<b>1</b> 38	106	40
	Chromium	ppm	ASTM D5185m	>20	2	2	2
Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m	>2	0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	4	4	4
	Lead	ppm	ASTM D5185m		14	8	3
	Copper	ppm	ASTM D5185m		44	40	93
	Tin	ppm	ASTM D5185m	>15	0	3	2
	Vanadium	ppm	ASTM D5185m	NONE	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	7	7	18
	Potassium	ppm	ASTM D5185m	>20	0	2	11
There is no indication of any contamination in the component.	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	0.6	0.4	0.1
	Nitration	Abs/cm	*ASTM D7624		14.	12.	9.
	Sulfation	Abs/.1mm		NONE	26.	23.	19.
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris Sand/Dirt		*Visual *Visual	NONE NONE	NONE NONE	NONE NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NOR
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		11	8	8
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		2	2	3
	Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m		<1 203	0 173	0 150
	Manganese	ppm ppm	ASTM D5185m		203	<1	<1
	Magnesium	ppm	ASTM D5185m		2 964	846	718
	Calcium	ppm	ASTM D5185m	2300	1820	1695	1604
	Phosphorus	ppm	ASTM D5185m		924	978	986
	•		ASTM D5185m	1200	1389	1179	1135
	Zinc	ppm	ASTIVI DOTODITI	1200	1303	11/3	1135
	Zinc Sulfur	ppm ppm	ASTM D5185m	1200	3701	4628	2937

Oxidation

Visc @ 100°C cSt

Abs/.1mm \*ASTM D7414

ASTM D445 15.5

Base Number (BN) mg KOH/g ASTM D2896 10

19.

14.13

8.29

23.

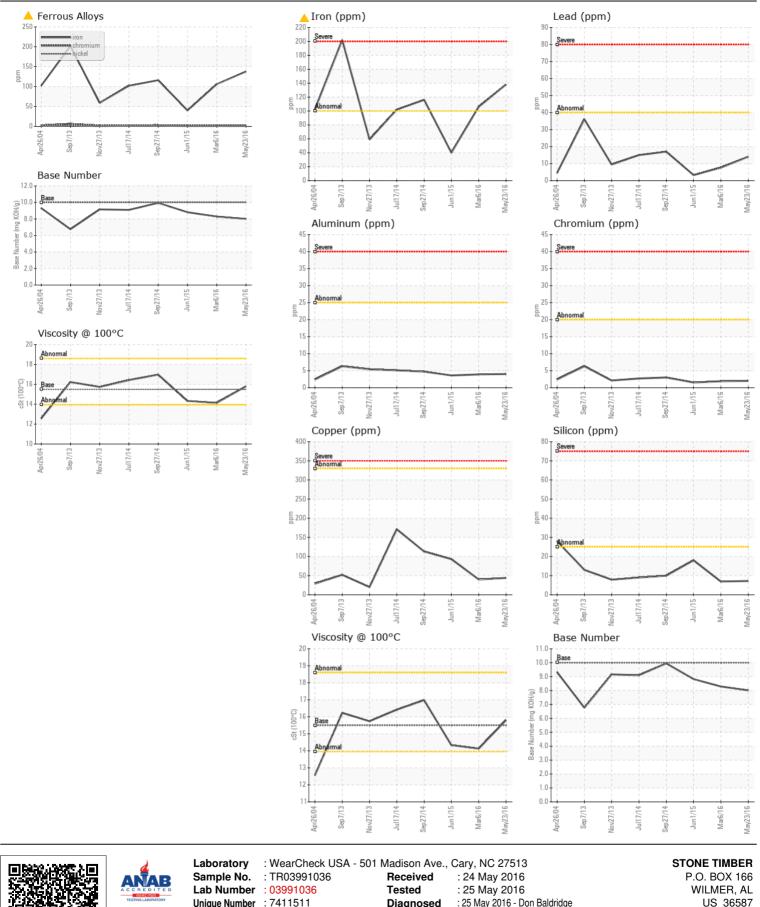
8.01

15.8

14.

8.82

14.33



Unique Number : 7411511 : 25 May 2016 - Don Baldridge Diagnosed Test Package : MOB 2 (Additional Tests: PQ) Contact: NORMAN PITTS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. \* - 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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Contact/Location: NORMAN PITTS - STOWIL

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