

OIL ANALYSIS REPORT

Sample Rating Trend



UTL-M0046 Component Oil

SHELL 15W40 (2 GAL)

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Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

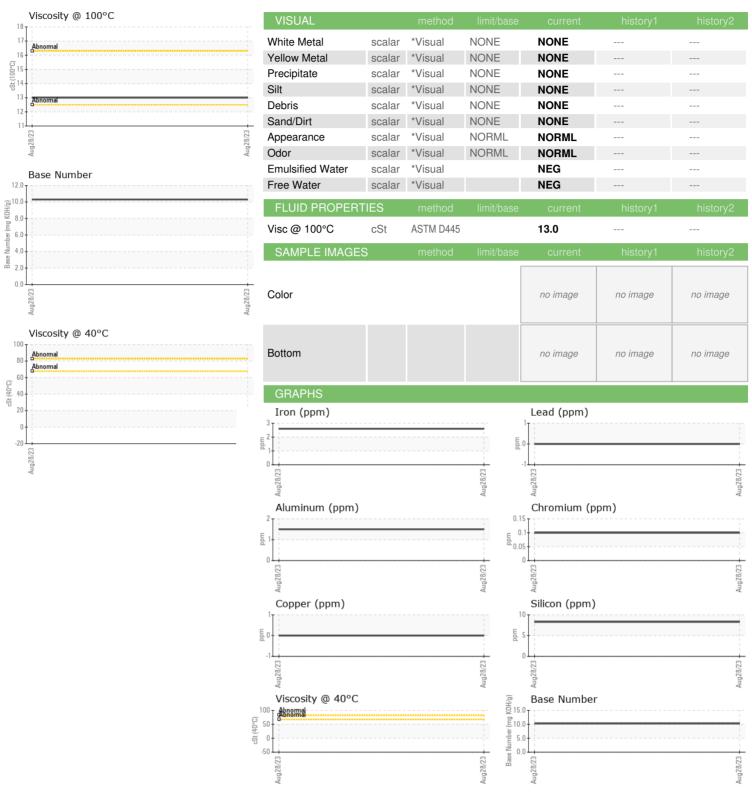
Fluid Condition

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

SAMPLE INFORMATION method imit/base current history1 history2				,			
Sample Date Client Info 28 Aug 2023	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 749 Oil Age hrs Client Info 749 Oil Changed Client Info Changed Sample Status NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m 3 Chromium ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium	Sample Number		Client Info		WC0794884		
Oil Age hrs Client Info 749 Sample Status Client Info Changed WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m 3 Chromium ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 <th< th=""><th>Sample Date</th><th></th><th>Client Info</th><th></th><th>28 Aug 2023</th><th></th><th></th></th<>	Sample Date		Client Info		28 Aug 2023		
Oil Changed Sample Status Client Info MORMAL Changed Init/base WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m 3 Chromium ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Tin ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 About very company ASTM D5185m 0	Machine Age	hrs	Client Info		749		
NORMAL	Oil Age	hrs	Client Info		749		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m 3 Chromium ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 58 <	Oil Changed		Client Info		Changed		
Iron	Sample Status				NORMAL		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m		3		
Titanium	Chromium	ppm	ASTM D5185m		<1		
Silver	Nickel	ppm	ASTM D5185m		0		
Aluminum	Titanium	ppm	ASTM D5185m		0		
Lead	Silver	ppm					
Copper ppm ASTM D5185m 0 Tin ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 58 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 28 Manganese ppm ASTM D5185m 468 Magnesium ppm ASTM D5185m 2010 Calcium ppm ASTM D5185m 1044 Phosphorus ppm ASTM D5185m 1282 Sulfur ppm ASTM D5185m 8	Aluminum	ppm					
Tin ppm ASTM D5185m <1	Lead	ppm			-		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 58 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 28 Manganese ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m		0		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 58 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 28 Manganese ppm ASTM D5185m 28 Magnesium ppm ASTM D5185m 468 Calcium ppm ASTM D5185m 2010 Phosphorus ppm ASTM D5185m 1044 Zinc ppm ASTM D5185m 1282 Sulfur ppm ASTM D5185m 4308 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >150 2 </th <th>Tin</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th><1</th> <th></th> <th></th>	Tin	ppm	ASTM D5185m		<1		
ADDITIVES	Vanadium	ppm	ASTM D5185m		0		
Boron	Cadmium	ppm	ASTM D5185m		0		
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Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0		
Magnesium ppm ASTM D5185m 468 Calcium ppm ASTM D5185m 2010 Phosphorus ppm ASTM D5185m 1044 Zinc ppm ASTM D5185m 1282 Sulfur ppm ASTM D5185m 4308 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >150 2 Sodium ppm ASTM D5185m >150 2 Potassium ppm ASTM D5185m >20 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 Nitration Abs/:nm *ASTM D7415 20.6 FLUID DEGRADATION <t< th=""><th>Molybdenum</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>28</th><th></th><th></th></t<>	Molybdenum	ppm	ASTM D5185m		28		
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CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 8 Sodium ppm ASTM D5185m >150 2 Potassium ppm ASTM D5185m >20 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 Nitration Abs/cm *ASTM D7624 5.6 Sulfation Abs/.1mm *ASTM D7415 20.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 18.8	-				_		
Silicon ppm ASTM D5185m 8 Sodium ppm ASTM D5185m >150 2 Potassium ppm ASTM D5185m >20 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 Nitration Abs/cm *ASTM D7624 5.6 Sulfation Abs/.1mm *ASTM D7415 20.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 18.8	Sulfur	ppm	ASTM D5185m		4308		
Sodium ppm ASTM D5185m >150 2 Potassium ppm ASTM D5185m >20 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 Nitration Abs/cm *ASTM D7624 5.6 Sulfation Abs/.1mm *ASTM D7415 20.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 18.8	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 Nitration Abs/cm *ASTM D7624 5.6 Sulfation Abs/.1mm *ASTM D7415 20.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 18.8	Silicon	ppm	ASTM D5185m		8		
INFRA-RED	Sodium	ppm	ASTM D5185m	>150	2		
Soot % % *ASTM D7844 0 Nitration Abs/cm *ASTM D7624 5.6 Sulfation Abs/.1mm *ASTM D7415 20.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 18.8	Potassium	ppm	ASTM D5185m	>20	1		
Nitration Abs/cm *ASTM D7624 5.6 Sulfation Abs/.1mm *ASTM D7415 20.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 18.8	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 20.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 18.8	Soot %	%	*ASTM D7844		0		
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 18.8	Nitration	Abs/cm	*ASTM D7624		5.6		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415		20.6		
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414		18.8		
	Base Number (BN)	mg KOH/g	ASTM D2896				



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: WC0794884

: 05938131 : 10628743

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 Aug 2023 Diagnosed

: 31 Aug 2023 Diagnostician : Sean Felton Test Package : MOB 1 (Additional Tests: FT-IR, KV100, TBN)

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) **ALTERNATIVE POWER**

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