

PROBLEM SUMMARY

Sample Rating Trend VISCOSITY

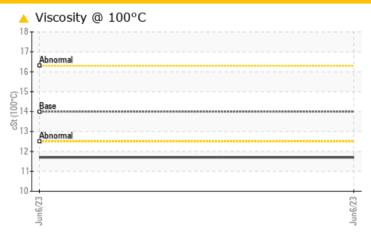


COLORADO/443 Machine Id 53.174L [COLORADO^443]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC T	EST RE	SULTS			
Sample Status				ATTENTION	
Visc @ 100°C	cSt	ASTM D445	14	11.7	

Customer Id: SHEWIC Sample No.: WC0798996 Lab Number: 05904819 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED /	COMMENDED ACTIONS				
Action	Status	Date	Done By	Description	
Change Fluid			?	Oil and filter change at the time of sampling has been noted.	
Change Filter			?	Oil and filter change at the time of sampling has been noted.	

HISTORICAL DIAGNOSIS



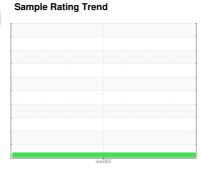
OIL ANALYSIS REPORT



COLORADO/443 53.174L [COLORADO^443]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)





DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

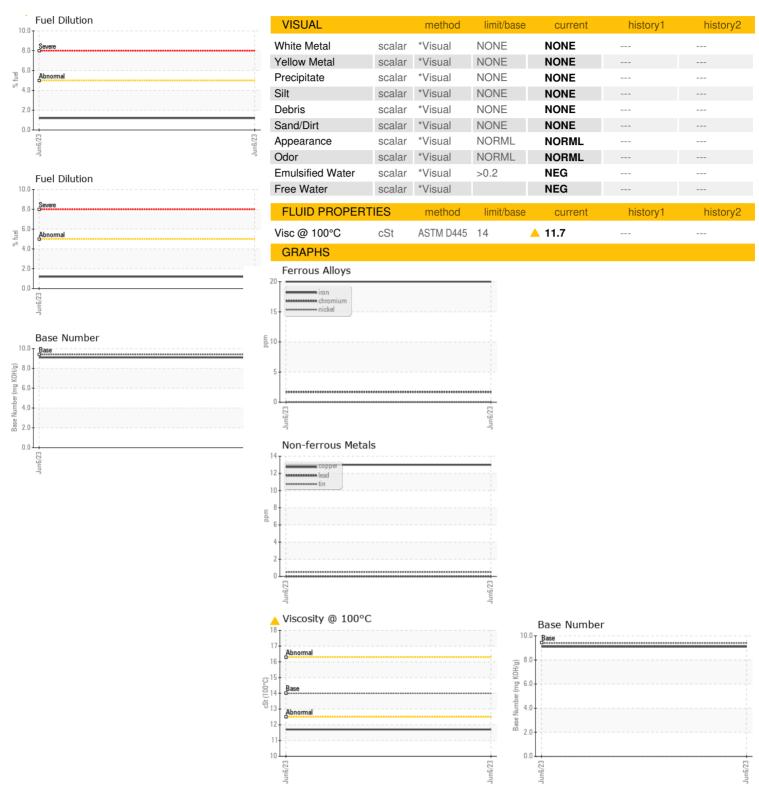
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sample Number Client Info WC0798996 Sample Date Client Info 06 Jun 2023 Machine Age hrs Client Info 313 Oil Age hrs Client Info Changed Oil Changed Client Info Changed Sample Status ATTENTION CONTAMINATION method limit/base current history1 history2 Glycol WC Method NEG	OPER 15W40 (- GAL)			Jun2023		
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Client Info	Sample Number		Client Info		WC0798996		
Oil Age	Sample Date		Client Info		06 Jun 2023		
Contamped Client Info Changed Client Info Changed ATTENTION CONTAMINATION method limit/base current history1 history2 history2 current history1 history2 current history2 history2 current history2 history2 current history3 history2 current history4 history4 history4 history4 history4 history4 history4 history4 current history4 history5 hi	Machine Age	hrs	Client Info		313		
CONTAMINATION method limit/base current history1 history2	Oil Age	hrs	Client Info		313		
CONTAMINATION method limit/base current history1 history2	Oil Changed		Client Info		Changed		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 20 Chromium ppm ASTM D5185m >20 2 Nickel ppm ASTM D5185m >2 0 Titanium ppm ASTM D5185m >2 1 Silver ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >2 0 Lead ppm ASTM D5185m >30 13 Lead ppm ASTM D5185m >30 13 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 <td< td=""><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td></td<>					_		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 20	CONTAMINATIO	N	method	limit/base	current	history1	history2
Concording Con	Glycol		WC Method		NEG		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
ASTM D5185m >2	ron	ppm	ASTM D5185m	>100	20		
STM D5185m S2 C1 STM D5185m S2 C1 STM D5185m S2 C2 C3 STM D5185m S2 C3 STM D5185m S4 S	Chromium	ppm	ASTM D5185m	>20	2		
ASTM D5185m >2	Nickel	ppm	ASTM D5185m	>2	0		
Aluminum	Titanium	ppm	ASTM D5185m	>2	<1		
December December	Silver	ppm	ASTM D5185m	>2	0		
December December	Aluminum	ppm	ASTM D5185m	>25	4		
Tin	_ead		ASTM D5185m	>40	0		
ASTM D5185m Description	Copper	ppm	ASTM D5185m	>330	13		
ADDITIVES	Γin	ppm	ASTM D5185m	>15	<1		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 50 Barium ppm ASTM D5185m 0 4 Molybdenum ppm ASTM D5185m 0 43 Magnesium ppm ASTM D5185m 3 Magnesium ppm ASTM D5185m 2062 Phosphorus ppm ASTM D5185m 895 Phosphorus ppm ASTM D5185m 3603 Sulfur ppm ASTM D5185m 3603 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 Potassium	/anadium		ASTM D5185m		0		
Soron ppm ASTM D5185m 0 50	Cadmium				0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 43 Manganese ppm ASTM D5185m 0 551 Magnesium ppm ASTM D5185m 2062 Calcium ppm ASTM D5185m 895 Phosphorus ppm ASTM D5185m 1145 Zinc ppm ASTM D5185m 3603 Sulfur ppm ASTM D5185m 3603 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 12 Solium ppm ASTM D5185m >20 2 Fuel % ASTM D5185m >20 2 Fuel % ASTM D5185m >20 2 Fuel<	Boron	ppm	ASTM D5185m	0	50		
Manganese ppm ASTM D5185m 3 Magnesium ppm ASTM D5185m 0 551 Calcium ppm ASTM D5185m 2062 Phosphorus ppm ASTM D5185m 895 Zinc ppm ASTM D5185m 1145 Sulfur ppm ASTM D5185m 3603 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 12 Sodium ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Fuel % ASTM D5185m >20 2 Soot % % *ASTM D7844 >3 0.1 Silic	Barium	ppm	ASTM D5185m	0	4		
Magnesium ppm ASTM D5185m 0 551 Calcium ppm ASTM D5185m 2062 Phosphorus ppm ASTM D5185m 895 Zinc ppm ASTM D5185m 1145 Sulfur ppm ASTM D5185m 3603 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 12 Godium ppm ASTM D5185m 6 Potassium ppm ASTM D5185m >20 2 Fuel % ASTM D3524 >5 1.2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1	Molybdenum	ppm	ASTM D5185m	0	43		
Calcium ppm ASTM D5185m 2062 Phosphorus ppm ASTM D5185m 895 Zinc ppm ASTM D5185m 1145 Sulfur ppm ASTM D5185m 3603 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 12 Sodium ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Fuel % ASTM D5185m >20 2 F	Manganese	ppm	ASTM D5185m		3		
Phosphorus ppm ASTM D5185m 895 Zinc ppm ASTM D5185m 1145 Sulfur ppm ASTM D5185m 3603 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 12 Sodium ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Fuel % ASTM D5185m >20 2	-	ppm	ASTM D5185m	0	551		
Tinc ppm ASTM D5185m 3603	Calcium				2062		
Tinc	Phosphorus		ASTM D5185m		895		
Sulfur ppm ASTM D5185m 3603 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 12 Sodium ppm ASTM D5185m 6 Potassium ppm ASTM D5185m >20 2 Fuel % ASTM D5185m >20 2 Fuel % ASTM D5185m >20 2 Fuel % ASTM D5185m >6 Fuel % ASTM D5185m >20 2 Fluir % ASTM D5185m >3 0.1 Soot % % *ASTM D7844 >3 0.1 Soot % % *ASTM D7415 >30 23.0							
Silicon ppm ASTM D5185m >25 12							
Sodium	CONTAMINANTS	}	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 Fuel % ASTM D3524 >5 1.2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 21.6	Silicon	ppm	ASTM D5185m	>25	12		
Fuel % ASTM D3524 >5 1.2 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.6	Sodium	ppm	ASTM D5185m		6		
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.6	Potassium	ppm	ASTM D5185m	>20	2		
Soot % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.6	Fuel	%	ASTM D3524	>5	1.2		
Nitration Abs/cm *ASTM D7624 >20 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.6	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.6	Soot %	%	*ASTM D7844	>3	0.1		
Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.6	Vitration						
Oxidation							
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 9.4 9.1	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.6		
	Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.1		



OIL ANALYSIS REPORT







Certificate L2367

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

: WC0798996 : 05904819 : 10566175

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

: 25 Jul 2023 Diagnostician : Don Baldridge

: 21 Jul 2023

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, 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)

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