

PROBLEM SUMMARY

Sample Rating Trend

VISCOSITY

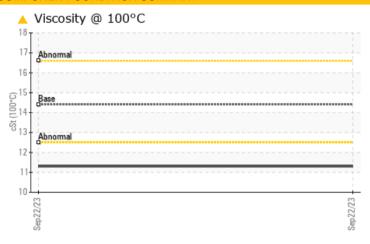


SZLG232619

Component **Diesel Engine**

CHEVRON 15W40 (--- QTS)

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	14.4	<u> </u>	

Customer Id: DOLGUL
Sample No.: WC0847143
Lab Number: 05964475
Test Package: FLEET

To manage this report scan the QR code

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

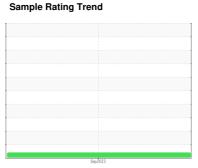
RECOMMENDE	O ACTIONS			
Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sam



VISCOSITY



SZLG232619

Component

Diesel Engine

CHEVRON 15W40 (--- QTS)

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.

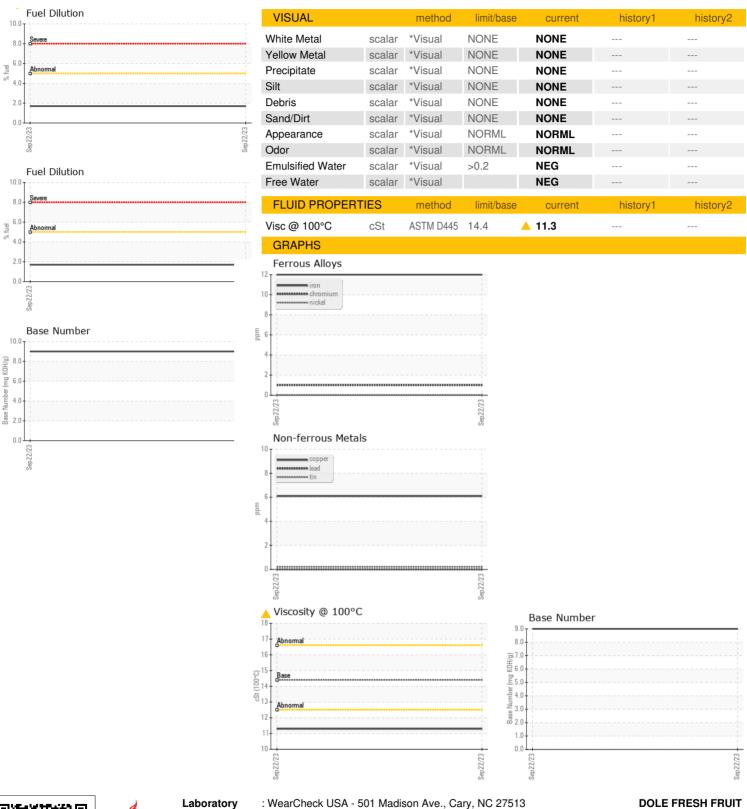
Fluid Condition

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

SAMPLE INFORMATION method limit/base current history1 history2					Sep 2023		
Client Info 122 Sep 2023	SAMPLE INFORMA	ATION	method			history1	history2
Client Info 122 Sep 2023	Sample Number		Client Info		WC0847143		
Machine Age hrs Client Info 1221							
Dil Age		hrs			-		
Contained Client Info Changed Client Info Changed ATTENTION CONTAMINATION method limit/base current history1 history2 method limit/base current history1 history2 method limit/base current history1 history2 limit history3 limit history2 limit history3 limit history3 limit history4 limit							
ATTENTION CONTAMINATION method limit/base current history1 history2							
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 12 Chromium ppm ASTM D5185m >20 1 Nickel ppm ASTM D5185m >20 1 Titanium ppm ASTM D5185m >3 0 Siliver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >30 6 Lead ppm ASTM D5185m >330 6 Copper ppm ASTM D5185m 15 <1	-						
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 12 Chromium ppm ASTM D5185m >20 1 Nickel ppm ASTM D5185m >4 0 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >20 4 Lead ppm ASTM D5185m >40 0 Lead ppm ASTM D5185m >40 0 Lead ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Codium ppm ASTM D5185m 10	CONTAMINATION		method	limit/base	current	history1	history2
Concording Con	Glycol		WC Method		NEG		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >4 0	ron p	ppm	ASTM D5185m	>100	12		
Description	Chromium	ppm	ASTM D5185m	>20	1		
ASTM D5185m STM D5185m ST	Nickel p	ppm	ASTM D5185m	>4	0		
Aluminum	Titanium p	ppm	ASTM D5185m		0		
Aluminum	Silver r	ppm	ASTM D5185m	>3	0		
Lead			ASTM D5185m	>20	4		
Copper			ASTM D5185m	>40	0		
Act			ASTM D5185m	>330	6		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 102 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 61 Manganese ppm ASTM D5185m 1 Magnesium ppm ASTM D5185m 354 Calcium ppm ASTM D5185m 1829 Phosphorus ppm ASTM D5185m 963 Zinc ppm ASTM D5185m 3840 Sulfur ppm ASTM D5185m >25 5 CONTAMINANTS method limit/base current history1			ASTM D5185m	>15	<1		
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Boron			ASTM D5185m				
Barium	ADDITIVES		method	limit/base	current	history1	history2
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Calcium ppm ASTM D5185m 1829 Phosphorus ppm ASTM D5185m 963 Zinc ppm ASTM D5185m 1190 Sulfur ppm ASTM D5185m 3840 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 Sodium ppm ASTM D5185m >50 3 Potassium ppm ASTM D5185m >20 2 Fuel % ASTM D5185m >20 2 Fuel % ASTM D5185m >20 2 Fuel % ASTM D5185m >20 2 Soot % % *ASTM D7844 >3 0.1 <td< td=""><td>Manganese p</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>1</td><td></td><td></td></td<>	Manganese p	ppm	ASTM D5185m		1		
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Sulfur ppm ASTM D5185m 3840 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 Sodium ppm ASTM D5185m >50 3 Potassium ppm ASTM D5185m >20 2 Fuel % ASTM D5185m >20 2 Fuel % ASTM D5185m >50 3 Fuel % ASTM D5185m >50 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 Soot % % *ASTM D7624 >20 7.2 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 <	Phosphorus	ppm	ASTM D5185m		963		
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Silicon ppm ASTM D5185m >25 5 Sodium ppm ASTM D5185m >50 3 Potassium ppm ASTM D5185m >20 2 Fuel % ASTM D3524 >5 1.7 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 7.2 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2	Sulfur	ppm	ASTM D5185m		3840		
Sodium	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 Fuel % ASTM D3524 >5 1.7 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 7.2 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2	Silicon	ppm	ASTM D5185m	>25	5		
Fuel % ASTM D3524 >5 1.7 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 7.2 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2	Sodium	ppm	ASTM D5185m	>50	3		
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 7.2 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2	Potassium	ppm	ASTM D5185m	>20	2		
Soot % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 7.2 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2	Fuel	%	ASTM D3524	>5	1.7		
Nitration Abs/cm *ASTM D7624 >20 7.2 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2	Soot %	%	*ASTM D7844	>3	0.1		
Sulfation Abs/.1mm *ASTM D7415 >30 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2		Abs/cm	*ASTM D7624	>20			
Oxidation				>30	20.1		
	FLUID DEGRADAT	ION	method	limit/base	current	history1	history2
	Oxidation /	Abs/.1mm	*ASTM D7414	>25	17.2		
			ASTM D2896		9.0		



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05964475

: WC0847143 : 10671026

Received

Diagnosed

: 29 Sep 2023 : 03 Oct 2023 Diagnostician : Jonathan Hester **Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel)

PO BOX 1689 GULFPORT, MS Contact: JORDAN JOHNSTON jordan.johnston@dole.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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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US 39502