

PROBLEM SUMMARY

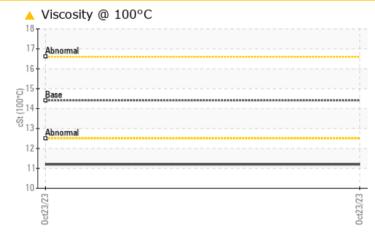
Sample Rating Trend VISCOSITY



Area COLORADO/443/SKIDSTEER Machine Id 53.182L [COLORADO^443^SKIDSTEER] Component Diesel Engine

Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. 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: SHEWIC Sample No.: WC0862632 Lab Number: 05994195 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

COLORADO/443/SKIDSTEER 53.182L [COLORADO^443^SKIDSTEER]

Sample Rating Trend



Diesel Engine Fluid

Component

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

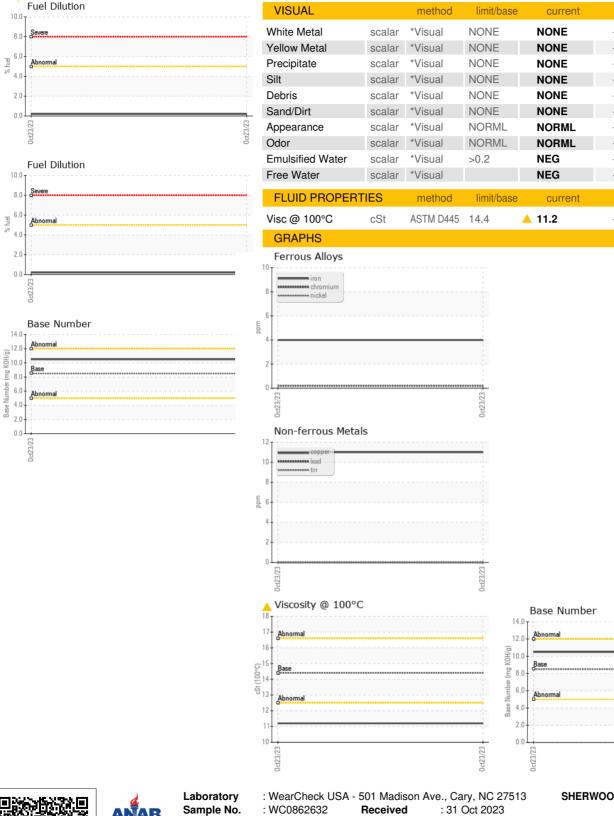
DIAGNOSIS	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		WC0862632		
No corrective action is recommended at this time.	Sample Date		Client Info		23 Oct 2023		
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		4		
Wear	Oil Age	hrs	Client Info		4		
Metal levels are typical for a new component	Oil Changed		Client Info		Not Changd		
breaking in.	Sample Status				ATTENTION		
Contamination Fuel content negligible. There is no indication of	CONTAMINATIO	N	method	limit/base	current	history1	history2
any contamination in the oil.	Glycol		WC Method		NEG		
Fluid Condition The oil viscosity is lower than normal. The BN result	WEAR METALS		method	limit/base	current	history1	history2
indicates that there is suitable alkalinity remaining in	Iron	ppm	ASTM D5185m	>100	4		
the oil. Confirm oil type.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>2	<1		
	Titanium	ppm	ASTM D5185m	>2	<1		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m	>25	2		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m	>330	11		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	Cadmium	ppm	ASTM D5185m		0		
	ADDITIVES		method	limit/base	current	history1	history2
						,	· · · · · · · · · · · · · · · · · · ·
	Boron	ppm	ASTM D5185m	250	56		
	Boron Barium	ppm ppm		250			
			ASTM D5185m	250 10	56		
	Barium	ppm	ASTM D5185m ASTM D5185m	250 10	56 2		
	Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100	56 2 29		
	Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450	56 2 29 2		
	Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000	56 2 29 2 450		
	Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150	56 2 29 2 450 1799	 	
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150	56 2 29 2 450 1799 881		
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350	56 2 29 2 450 1799 881 1065 3898	 	
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250	56 2 29 2 450 1799 881 1065 3898		
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25	56 2 29 2 450 1799 881 1065 3898 current	 history1	
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >158	56 2 29 2 450 1799 881 1065 3898 current 16	 history1	 history2
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 Iimit/base >25 >158 >20	56 2 29 2 450 1799 881 1065 3898 <u>current</u> 16 5	 history1	 history2
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 Iimit/base >25 >158 >20	56 2 29 2 450 1799 881 1065 3898 <u>current</u> 16 5 2 2 0.2	 history1	
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 I imit/base >25 >158 >20 >5	56 2 29 450 1799 881 1065 3898 current 16 5 2 2 0.2 current	 history1 	 history2
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >5 limit/base >3	56 2 29 450 1799 881 1065 3898 current 16 5 2 0.2 0.2 current	 history1 history1	 history2 history2
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 bimit/base >25 >158 >20 bimit/base >3 >20	56 2 29 450 1799 881 1065 3898 current 16 5 2 2 0.2 current	 history1 history1 	history2 history2
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 bimit/base >25 >158 >20 bimit/base >3 >20	56 2 29 450 1799 881 1065 3898 current 16 5 2 0.2 0.2 current 0 4.6 19.5	 history1 history1 	history2 history2
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 Iimit/base >25 >158 >20 >5 Iimit/base >3 >20 >30 30	56 2 29 450 1799 881 1065 3898 current 16 5 2 0.2 0.2 current 0 4.6 19.5	 history1 history1 history1 	history2 history2

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

10.5



OIL ANALYSIS REPORT



SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS US 67213 Contact: BILL ORCUTT william.orcutt@wildcat.net T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

history1

history

history2

history2

Certificate L2367

Lab Number

Unique Number

: 05994195

: 10722555

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.

Diagnosed

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

: 03 Nov 2023

Diagnostician : Jonathan Hester

Submitted By: KEVIN HOHEISEL

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