

## **PROBLEM SUMMARY**

Sample Rating Trend VISCOSITY

#### Area **COLORADO/443/SKIDSTEER** Machine Id **53.183L [COLORADO^443^SKIDSTEER]** Component **Diesel Engine**

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 TEST RESULTS										
Sample Status		ATTENTION								
Visc @ 100°C	cSt	ASTM D445	14.4	<u> </u>						

Customer Id: SHEWIC Sample No.: WC0862637 Lab Number: 05994194 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 53.183L [COLORADO^443^SKIDSTEER] Component

**Diesel Engine** Fluid

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

DIAGNOSIS	SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0862637		
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		N	method	limit/base	current	history1	history2
	GIYCOI		WC Method		NEG		
Fluid Condition The ail viscout is lower than normal. The DN requit	WEAR METALS		method	limit/base	current	history1	history2
indicates that there is suitable alkalinity remaining in	Iron	maa	ASTM D5185m	>100	3		
the oil. Confirm oil type.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>2	<1		
	Titanium	mag	ASTM D5185m	>2	0		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	mag	ASTM D5185m	>25	2		
	Lead	maa	ASTM D5185m	>40	0		
	Copper	mag	ASTM D5185m	>330	8		
	Tin	maa	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	Cadmium	ppm	ASTM D5185m		0		
	ADDITIVES		method	limit/base	current	history1	history2
	Deren			050	50	motory	motory
	Borium	ppm	ASTM DE105m	200	59		
	Darium	ppm		100	2		
	Morganerum	ppm		100	32		
	Manganese	ppm	ASTM D5185M	450	2		
	Magnesium	ppm	ASTM D5185M	450	452		
		ppm	ASTM D5185M	3000	1793		
	Phosphorus	ppm	ASTM D5185M	1150	892		
	Zinc	ppm	ASTM D5185m	1350	1078		
	Sulfur	ppm	ASTM D5185m	4250	3746		
	CONTAMINANTS	;	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	15		
	Sodium	ppm	ASTM D5185m	>158	5		
	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel	%	ASTM D3524	>5	0.2		
			mathad	limit/hooo	ourroat	biotomat	history
			method	limit/base	current	history i	history2
	Soot %	%	*ASTM D7844	>3	0		
	Nitration	Abs/cm	*ASTM D7624	>20	4.5		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1		
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0		
	Base Number (BN)	ma KOH/a	ASTM D2896	8.5	10.7		

Sample Rating Trend

VISCOSITY





## **OIL ANALYSIS REPORT**



Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Certificate L2367 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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history2

history2