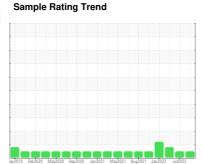


# **OIL ANALYSIS REPORT**





NORMAL

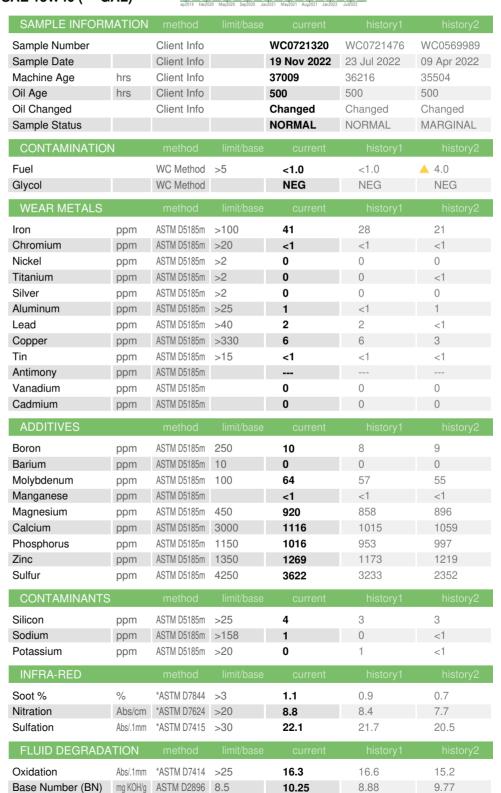
Diesel Engine

Machine

Component

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

**CATERPILLAR LOADER L-10** 



## DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

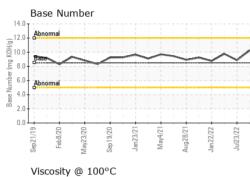
There is no indication of any contamination in the oil.

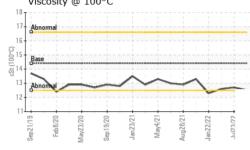
### **Fluid Condition**

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



# **OIL ANALYSIS REPORT**





				ľ	VISUAL	-				met	thod	limit/l	base	Cl	urrent	t		histo	ry1		histo	ory2
				W	/hite Me	tal		sca	ılar	*Visu	ıal	NONE		NO	NE		Ν	IONE		l	NONE	-
~~~~~			Yellow Metal				scalar		*Visual		NONE		NONE			NONE			NONE		Ξ	
					recipitat	е		sca	lar	*Visu		NONE		NO				IONE			NONE	
			+	Si				sca		*Visu		NONE		NO				IONE			NONE	
				Debris				sca		*Visual			NONE		NONE		NONE			NONE		
51	21		Sand/Dirt					scalar		*Visual		NONE		NE			IONE			NONE		
Jan 23/21	May4/21 Aug28/21 Jan22/22 Jul23/22		Appearance Odor					scalar		*Visual		NORML NORML		RML						NOR		
	A A	, r	7		dor mulsifie			sca		*Visu			/1L		RML			IORN	/IL		NORI	VIL
					ree Wat		er	sca		*Visu *Visu		>0.2		NEG				IEG IEG			NEG	
								sca	lidi	VISU	Idi			NEV	J		IN	IEG			NEG	
					FLUID		PER			met	thod	limit/l	base		urrent	t		histo	ry1		histo	ory2
				_	sc @ 1			cSt	:	ASTN	1 D445	14.4		12.5	5		1:	2.7			12.6	
$\sim$	$\sim$				GRAPH																	
		~		250 T	Iron (pj	om)							100	Lead	(ppn	n)						
721-	21	22	20	200-	Severe							_	80	Severe								
Jan23/21	May4/21 Aug28/21	Jan 22/22	<i>70</i> /80mL										0	T I								
, -	A	7		집 <sup>150</sup> -	Abnormal							-	E 40	Abar	al		-					
				50-	-								20									
				0					÷	÷	2		0				-	-	-	-	4	2
				1 N N N N N N N N N N N N N N N N N N N	Sep 21/19 - Feb 8/20 -	May23/20	Sep 19/20	Jan23/21	May4/21	Aug28/21	Jan 22/22	Jul23/22		Sep21/19	Feb 8/20	May23/20	Sep 19/20	Jan23/21	May4/21	Aug28/21	Jan 22/22	Jul23/22
						-		Ρſ	2	Au	Ъ	٦٢						Ja	2	Au	Ja	JL
				50 T	Aluminu	ım (p	pm)						50	Chro	mium	ı (pp	om)					
					Severe								40	Saura								
				e 30-	Abnormal					-			ط <sup>30</sup> 20									
				E 30 -			heie						<sup>ස</sup> 20	Abnom	nal	-						
				10-									10									
				٥L	20	20	20	21	21	21	22	22	0	19	20-	20	20 -	21.	21.	21.	22	22 -
				č	Sep 21/19 - Feb 8/20 -	May23/20	Sep 19/20	Jan23/21	May4/21	Aug28/21	Jan22/22	Jul23/22		Sep21/19	Feb 8/20	May23/20	Sep 19/20	Jan23/21	May4/21	Aug28/21	Jan22/22	Jul23/22
					Copper		1)						Silico									
				800									80	0				1				1
				600-									60									
				튭 400 -	A With mal								Ed 40	Abnorm								
				200-						-			20	Abnorm		1						
				οĻ		-	-	51		12	2	2	0	6	-	-		-	17	12	2	2
				5.00	Sep 21/19 Feb 8/20	May23/20	Sep 19/20	Jan23/21	May4/21	Aug28/21	Jan 22/22	Jul23/22		Sep21/19	Feb 8/20	May23/20	Sep 19/20	Jan23/21	May4/21	Aug28/21	Jan 22/22	Jul23/22
					,, Viscosit					4	_	-		Base			05	2		4	7	-
				<sup>18</sup>	Abnormal								15.0	Abnorm	al	117				1		
				10									9 p10.0	Base			-11	-		_		-
				E14+	Base			~					nber (n	Abror		-		-				
				で3 12・	Abnormal						1		Base Number (mg KOH/g) 2.0	Abnorm	(d)							
				10							_		8 0.0							_		_
				0.0	Sep 21/19 Feb 8/20	May23/20	Sep 19/20	Jan 23/21	May4/21	Aug28/21	Jan 22/22	Jul23/22		Sep 21/19	Feb 8/20	May23/20	Sep19/20	Jan 23/21	May4/21	Aug28/21	Jan 22/22	Jul23/22
				: W : W : 0!	~	eck U 320 <mark>8</mark>		501 M Rece Diag	ladis ived	son Ave., Ca I : 09 I ed : 13 I		ary, NC 2 Dec 202 Dec 202	ry, NC 27513 Dec 2022 Dec 2022		3 TRESCA BROS SAND & GRAVEL IN 66 MAIN S MILLIS, M. US 0205							
Certificate L236			ackage		10B 2		-	•														
																	fr	ossi(	-			
discuss Denote	ן ז ד ד ז this s s test ו	Jnique Fest Pa ample methoo	Number ackage report, ds that a	: 1 N conta are ou	025374 IOB 2 act Cusi utside o	Diagi vice at 17025	Diagnostician ce at 1-800-23 7025 scope of a			: Wes Davis <i>-1369.</i>			US 020 Contact: FRAN ROS frossi@trescaconcrete.co T: (508)376-29									

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

Submitted By: JOHN HATZISTEFANOU

F: (508)376-4333