WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

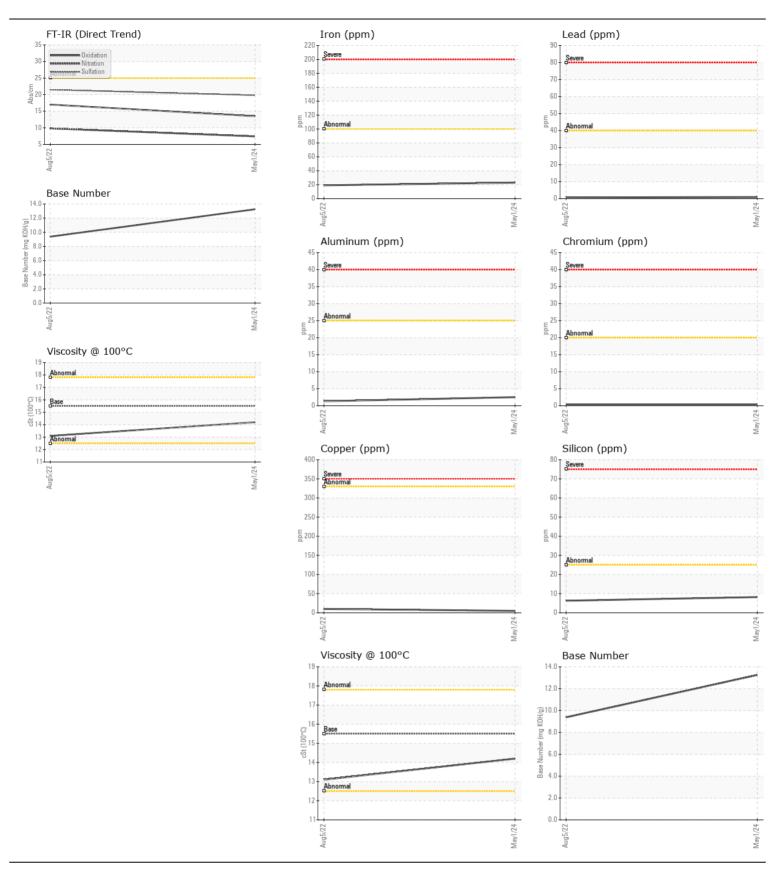
CATERPILLAR D-8N

OIL ANALYSIS REPORT

Component
Diesel Engine

TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (10 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06176282	TR05616489	
	Sample Date		Client Info		01 May 2024	05 Aug 2022	
	Machine Age	hrs	Client Info		5894	5570	
	Oil Age	hrs	Client Info		312	250	
	Filter Age	hrs	Client Info		312	250	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>100	23	19	
VLAII	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Nickel		ASTM D5185m		0	<1	
	Titanium	ppm				2	
	Silver	ppm	ASTM D5185m		<1		
		ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m		2	.4	
	Lead	ppm	ASTM D5185m		<1	<1	
	Copper	ppm	ASTM D5185m		5	10	
	Tin	ppm	ASTM D5185m	>15	0	1	
	Vanadium	ppm	ASTM D5185m	NONE	0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m		8	6	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	0	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	9.8	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	21.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		4	4	
LOID CONDITION	Boron	ppm	ASTM D5185m		228	129	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		186	76	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		464	460	
	Calcium		ASTM D5185m		3707	2092	
	Phosphorus	ppm	ASTM D5185m		921	865	
	Zinc	ppm	ASTM D5185m		1077	1054	
		ppm					
	Sulfur	ppm Abo/ 1mm	ASTM D5185m	. OF	4293 12.5	2955	
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896	>25	13.5 13.25	17.0 9.38	





Certificate L2367

Laboratory Sample No.

: TR06176282 Lab Number : 06176282 Unique Number : 11022335 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 May 2024 **Tested** : 13 May 2024

: 14 May 2024 - Sean Felton Diagnosed

NOLL CONSTRUCTION

BOX 152 GOLVA, ND US 58632 Contact: KELLY ZIETTLOW

F: (701)872-3823

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)