WEAR CONTAMINATION FLUID CONDITION

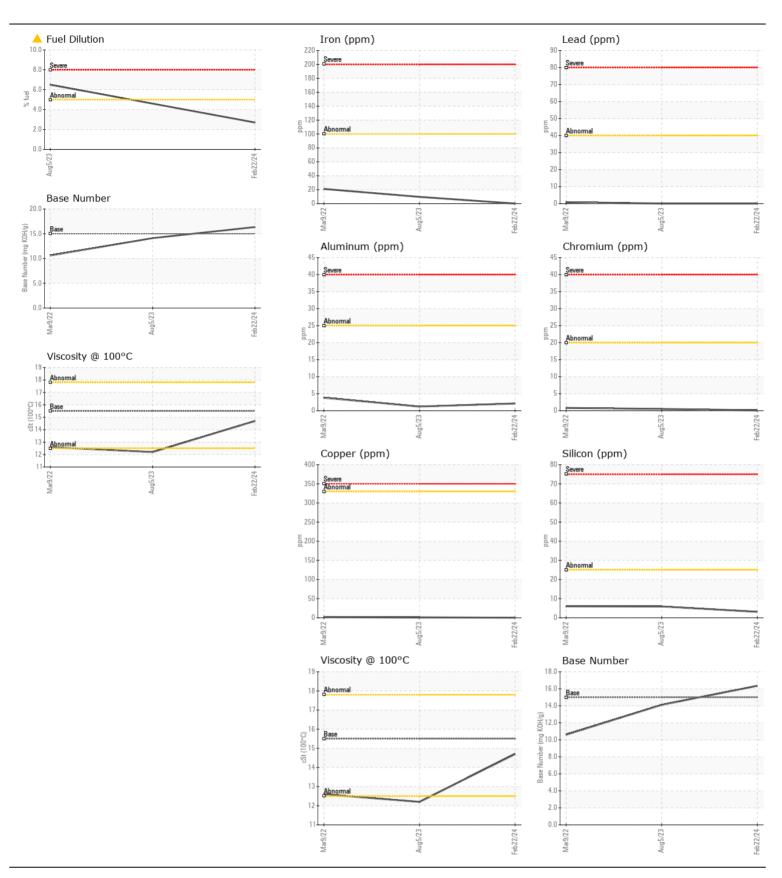
NORMAL MARGINAL ATTENTION

OIL ANALYSIS REPORT

CATERPILLAR 966G 42 (S/N ANZ00375)

Component Diesel Engine

TRC MOLY XL PROSPE	C III 15W40 (8 GAL)							
RECOMMENDATION No corrective action is recommended at this time. Confirm the source		Test	UOM	Method	Limit/Abn	Current	History1	History2
		Sample Number	COM	Client Info	Little	TR06101172		TR05490174
		Sample Date		Client Info		22 Feb 2024	05 Aug 2023	09 Mar 2022
of the lubricant being utilized for top-u	up/fill. Resample at the next	Machine Age	hrs	Client Info		0	0	0
service interval to monitor.		Oil Age	hrs	Client Info		35	294	805
		Filter Age	hrs	Client Info		35	294	805
		Oil Changed		Client Info		Not Changd	Not Changd	Changed
		Filter Changed		Client Info		Not Changd	Not Changd	Changed
	Sample Status				ATTENTION	ABNORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	0	10	21	
WEAR		Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal		Nickel	ppm	ASTM D5185m		0	0	0
		Titanium	ppm	ASTM D5185m		0	0	<1
		Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	1	4	
		Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m	>330	0	1	2	
	Tin	ppm	ASTM D5185m	>15	0	<1	<1	
		Vanadium	ppm	ASTM D5185m		0	0	<1
		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	6	6	
CONTAMINATION	J	Potassium	ppm	ASTM D5185m		0	<1	3
Light fuel dilution occurring. No other the oil.	er contaminants were detected in	Fuel	%	ASTM D3524		<u>^</u> 2.7	<u></u> 6.5	<1.0
		Water		WC Method	>0.2	NEG	NEG	NEG
		Glycol		WC Method		NEG	NEG	NEG
		Soot %	%	*ASTM D7844	>3	0.1	0.2	0.4
		Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.4	11.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.4	18.4	24.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE	
		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML	
		Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG	
FLUID CONDITION		Sodium	ppm	ASTM D5185m		0	4	<1
		Boron	ppm	ASTM D5185m		25	227	175
Additive levels indicate the addition of The BN result indicates that there is soil. The condition of the oil is suitable		Barium	ppm	ASTM D5185m		0	0	0
		Molybdenum	ppm	ASTM D5185m		115	186	169
		Manganese	ppm	ASTM D5185m		<1	<1	<1
		Magnesium	ppm	ASTM D5185m		9 74	436	373
		Calcium	ppm	ASTM D5185m	4500	3666	3905	3875
		Phosphorus	ppm	ASTM D5185m		779	905	901
		Zinc	ppm	ASTM D5185m	1400	987	1056	1086
		Sulfur	ppm	ASTM D5185m	0.5	3922	4618	3334
		Oxidation	Abs/.1mm	*ASTM D7414		9.3	11.9	17.7
		Base Number (BN)				16.35	14.11	10.6
		Visc @ 100°C	cSt	ASTM D445	15.5	14.7	12.2	12.6







Laboratory Sample No.

Lab Number : 06101172 Unique Number : 10899402

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06101172

Received **Tested** Diagnosed

: 29 Feb 2024 Test Package : MOB 2 (Additional Tests: PercentFuel)

: 26 Feb 2024

: 29 Feb 2024 - Wes Davis

28 STONE RD BELMONT, NH US 03220

Contact: DON PERCY

NUTTER ENTERPRISES INC

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)

T: F: