

Machine Id **CATERPILLAR MT865 CHALLENGER** Component Diesel Engine TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (--- QTS)

The Pho-Spec III STNTHETIC BLEND 15W40 (Q15)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06101168	TR05871650	TR05502613
	Sample Date		Client Info		22 Feb 2024	27 Apr 2023	14 Mar 2022
	Machine Age	hrs	Client Info		4490	4197	3707
	Oil Age	hrs	Client Info		300	225	190
	Filter Age	hrs	Client Info		300	225	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	2	12	13
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	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	3
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m	>330	<1	4	4
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
						_	
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	7	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	2	3
,	Fuel		WC Method		<1.0	<1.0	<1.0
	Water Glycol		WC Method WC Method	>0.2	NEG NEG	NEG NEG	NEG NEG
	Soot %	%	*ASTM D7844	. 2	0.2	0.3	0.2
	Nitration	Abs/cm	*ASTM D7644	>3 >20	9.4	11.5	11.6
	Sulfation	Abs/.1mm	*ASTM D7024		17.3	20.1	20.7
	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	1	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		0	5	78
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	_	0	0	0
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		125	126 <1	80 <1
	Manganese	ppm ppm	ASTM D5185m		<1 17	20	27
	Calcium	ppm	ASTM D5185m		3632	4326	2479
	Phosphorus	ppm	ASTM D5185m		610	909	1027
	Zinc	ppm	ASTM D5185m		769	1100	1240
	Sulfur	ppm	ASTM D5185m		3199	5272	4206
	Ouidation	Aba/dmm	*40714 D7414	05	0.7	10.0	4200

9.7

13.9

14.15

12.6

14.8

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.5

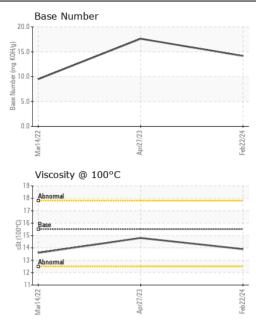
Oxidation

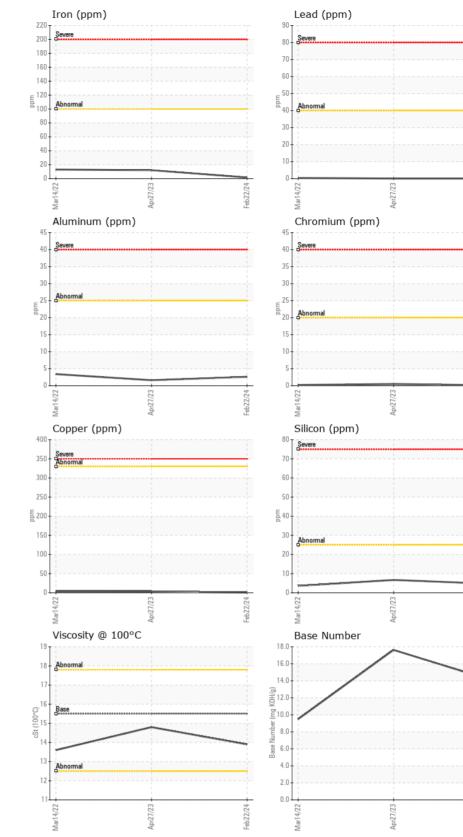
Visc @ 100°C cSt

Base Number (BN) mg KOH/g ASTM D2896

16.3 17.63 9.49

13.6





MAC FARMS JV Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received S 35708 WELLS RD : TR06101168 : 26 Feb 2024 CHENEY, WA Lab Number : 06101168 : 28 Feb 2024 Tested Unique Number : 10899398 : 28 Feb 2024 - Sean Felton US 99004 Diagnosed Test Package : MOB 2 Contact: RONALD GROGAN Certificate L2367 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. T:

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

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Contact/Location: RONALD GROGAN - MACCHETR