

OIL ANALYSIS REPORT

Machine Id **INTERNATIONAL 4033** Compone **Diesel Engine** TRC PRO-SPEC IV 15W40 (11 QTS)

1RC PRO-SPEC IV 15W40 (11 Q15)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06191243	TR05562790	TR05456321
	Sample Date		Client Info		14 May 2024	04 May 2022	31 Jan 2022
	Machine Age	mls	Client Info		545526	392657	362980
	Oil Age	mls	Client Info		29307	0	0
	Filter Age	mls	Client Info		29307	0	0
	Oil Changed		Client Info		Changed	N/A	N/A
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	33	43	31
	Chromium	ppm	ASTM D5185m	>20	2	2	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	13	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	5	4	4
	Lead	ppm	ASTM D5185m	>40	6	7	9
	Copper	ppm	ASTM D5185m	>330	2	1	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	6	6
	Potassium	ppm	ASTM D5185m		16	15	2
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.2	1.4	1
	Nitration	Abs/cm	*ASTM D7624	>20	13.6	14.5	16.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	27.8	30.0	34.0
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	4	0
	Boron	ppm	ASTM D5185m		0	25	1
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	0
	Molybdenum	ppm	ASTM D5185m		4	31	32
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		27	556	20
	Calcium	ppm	ASTM D5185m	2300	5261	2110	4943
	Phosphorus	ppm	ASTM D5185m		1221	762	1050
	Zinc	ppm	ASTM D5185m	1200	1313	924	1114
	Sulfur	ppm	ASTM D5185m		5687	3188	3847
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	24.4	25.6
	Base Number (BN)		ASTM D2896		9.90	6.83	9.63
		0.0					10 -

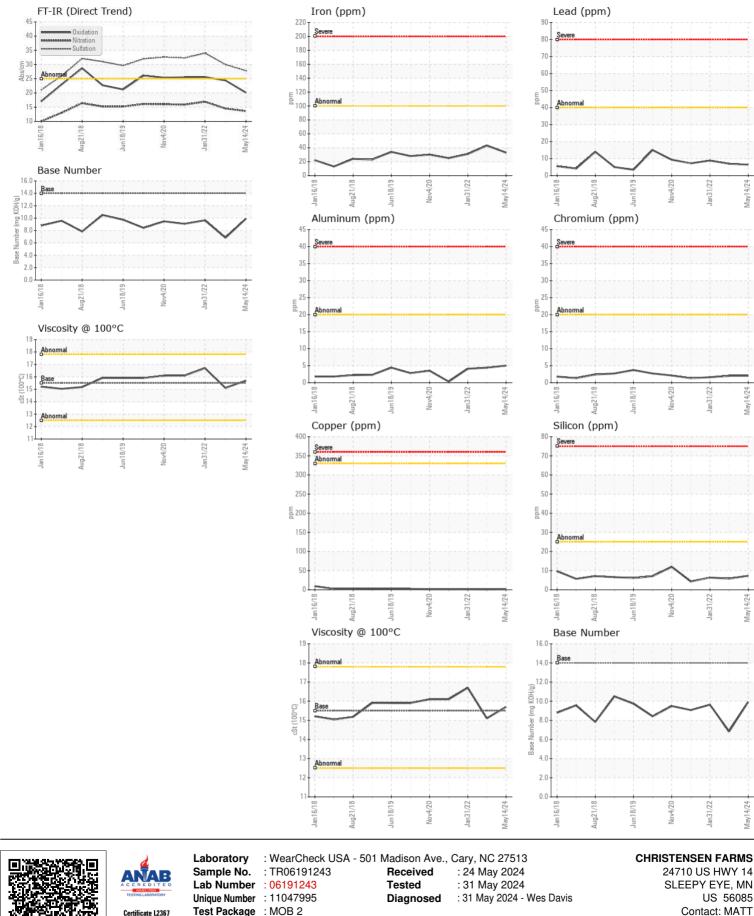
Visc @ 100°C cSt

ASTM D445 15.5

15.1

16.7

15.7



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.

F: (507)794-5597 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: MATT ? - CHRSLE Page 2 of 2

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