

OIL ANALYSIS REPORT

## Machine Id CHICAGO PNEUMATIC AC Component Diesel Engine Fluid

## TRC MOLY XL PRO-SPEC III SYNTHETIC15W40 (18 QTS)

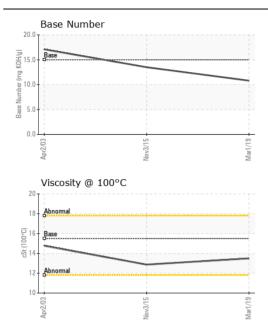
TRUMULT AL PRU-SPEC III STNTRETICIOWA	0 (10 013)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR04784212	TR03895198	TR00493168
	Sample Date		Client Info		01 Mar 2019	03 Nov 2015	02 Apr 2003
	Machine Age	hrs	Client Info		0	0	2410
	Oil Age	hrs	Client Info		4	5	60
	Filter Age	hrs	Client Info		0	0	60
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	68	<b>1</b> 09	86
	Chromium	ppm	ASTM D5185m	>20	2	3	3
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	1	<1
	Titanium	ppm	ASTM D5185m	>3	<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	3	4
	Lead	ppm	ASTM D5185m	>40	7	15	4
	Copper	ppm	ASTM D5185m	>330	6	6	6
	Tin	ppm	ASTM D5185m	>15	5	13	11
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	6	9	6
	Potassium	ppm	ASTM D5185m		0	7	6
	Fuel	pp	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.8	0.7	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	5.	0.06
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	12.	0.07
	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	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		7	7	11
	Boron	ppm	ASTM D5185m		12	168	2
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		170	206	197
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		817	564	397
	Calcium	ppm	ASTM D5185m	4500	1907	4423	4581
	Phosphorus	ppm	ASTM D5185m		990	918	838
	Zinc	ppm	ASTM D5185m	1400	1213	1092	986
	Sulfur	ppm	ASTM D5185m		3411	3810	4846
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	9.	0.08
	Base Number (BN)	mg KOH/g	ASTM D2896		10.8	13.5	17.1
	Vies @ 10000	- 01		45.5	10.5	10.07	4 4 77

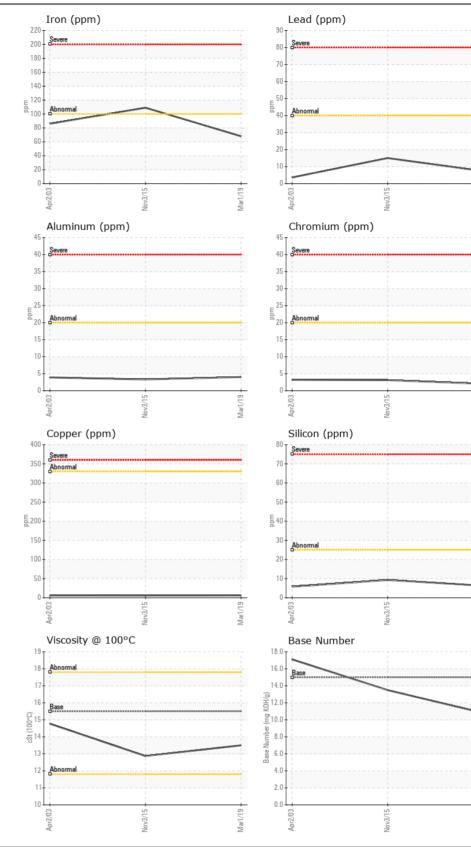
Visc @ 100°C cSt ASTM D445 15.5

12.87

13.5

14.77





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 PHIL HARDER Sample No. Received 57803 350TH STREET : TR04784212 : 23 Aug 2019 Lab Number : 04784212 MOUNTAIN LAKE, MN Tested : 26 Aug 2019 Unique Number : 8712021 : 26 Aug 2019 - Don Baldridge US 56159 Diagnosed Test Package : MOB 2 Contact: PHILIP HARDER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. philbren@frontiernet.net \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: 5(07)227-6074 F:

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