

OIL ANALYSIS REPORT

Machine Id **CASE IH 255** Component **Diesel Engine** Fluid **TRC MOLY XL PRO-SPEC IV 15W40 (22 QTS)**

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current TR04871524	History1	History2
Resample at the next service interval to monitor.	Sample Number Sample Date		Client Info Client Info		25 Nov 2019	TR04607582 13 Nov 2018	TR04374732 18 Nov 2017
	Machine Age	hrs	Client Info		4677	4407	4071
	Oil Age	hrs	Client Info		270	336	294
	Filter Age	hrs	Client Info		270	336	294
	Oil Changed	1115	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		20	23	23
	Chromium	ppm	ASTM D5185m	>20	<1	1	1
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m	>3	0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	4	4
	Lead	ppm	ASTM D5185m		<1	<1	2
	Copper	ppm	ASTM D5185m		7	7	5
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	3	9
CONTAMINATION	Potassium	ppm	ASTM D5185m		<1	1	6
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	/ 0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0
	Nitration	Abs/cm	*ASTM D7624		11.9	11.9	8.
	Sulfation	Abs/.1mm	*ASTM D7415		19.5	20.2	17.
	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		5	4	5
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		3	3	2
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		157	140	156
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		871	847	875
	Calcium	ppm	ASTM D5185m	1300	1686	1621	1693
	Phosphorus	ppm	ASTM D5185m		1015	1011	1091
	Zinc	ppm	ASTM D5185m	1300	1284	1141	1289
	Sulfur	ppm	ASTM D5185m		3221	3938	3337
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	15.6	12.
	Dese M I (DM)	1/01//	AOTH DOCCO	- 4	40 5	10.0	

Base Number (BN) mg KOH/g ASTM D2896 14

Visc @ 100°C cSt ASTM D445 15.5

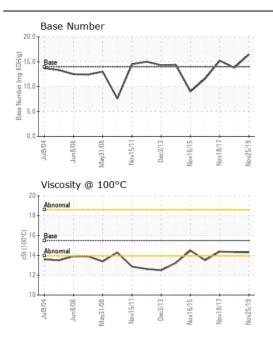
16.5

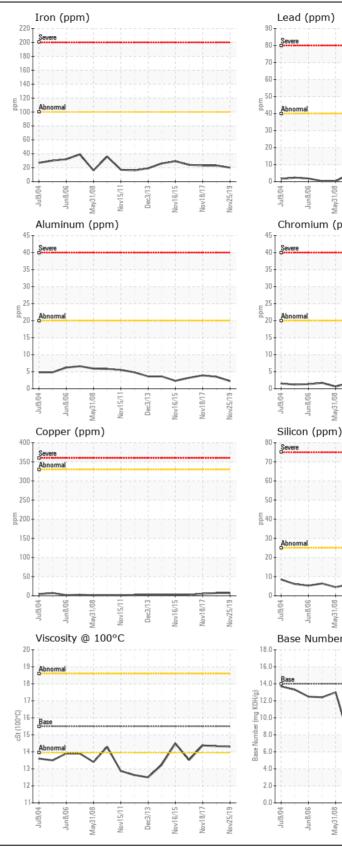
14.3

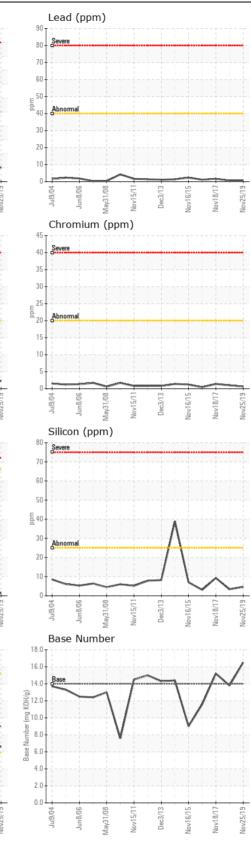
14.38

13.8 15.2

14.33







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 PHIL HARDER Sample No. Received : 19 Dec 2019 57803 350TH STREET : TR04871524 Lab Number : 04871524 : 20 Dec 2019 MOUNTAIN LAKE, MN Tested Unique Number : 8856520 : 20 Dec 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)

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Contact/Location: PHILIP HARDER - PHIMOU