

WEAR CONTAMINATION **FLUID CONDITION**

ABNORMAL NORMAL **ATTENTION**

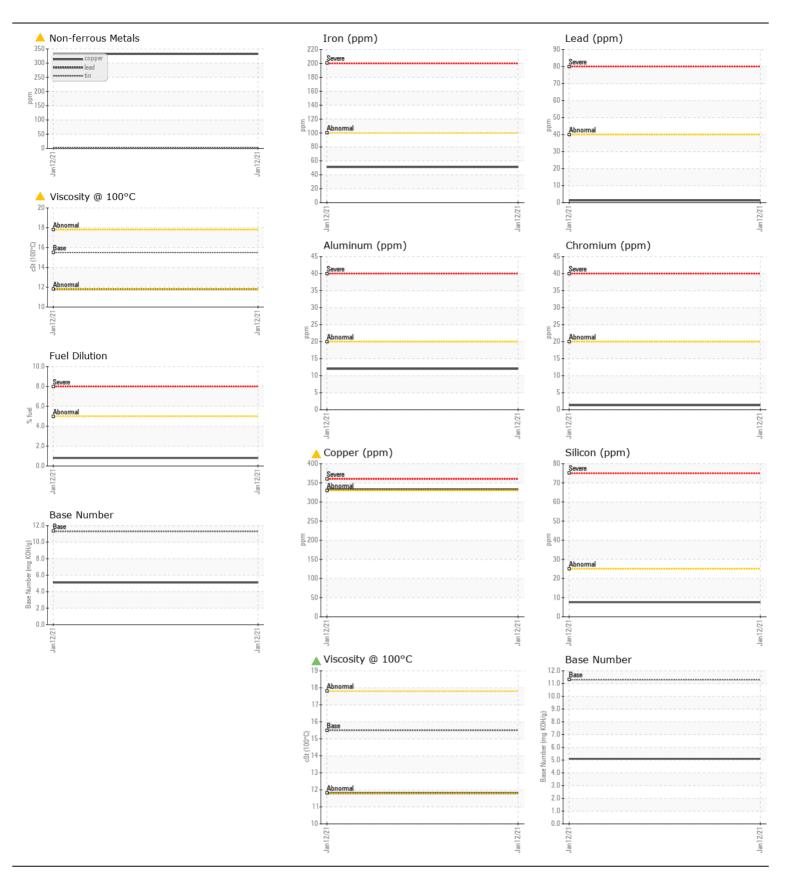
Store 9 - Marietta

PRINOTH T14R 935310196

Component Diesel Engine

CAT DIESEL ENGINE OIL 15W40 (5 GAL)

CAT DIESEL ENGINE OIL 15W40 (5 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	00	Client Info	2	LEC0016934		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		12 Jan 2021		
	Machine Age	hrs	Client Info		529		
	Oil Age	hrs	Client Info		529		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1113	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Ciletit IIIIO		ABNORMAL		
					ADINUNINAL		
WEAR The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>100	51		
	Chromium	ppm	ASTM D5185m	>20	1		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		12		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		<u> </u>		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	710	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
<u></u>	Tellow Metal	Scalai	Visuai	INOINL	INONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8		
	Potassium	ppm	ASTM D5185m		7		
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		0.8		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	11		
	Sulfation	Abs/.1mm	*ASTM D7415		32.8		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
FLUID CONDITION The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m		34		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		6		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		39		
	Calcium	ppm	ASTM D5185m		2425		
	Phosphorus	ppm	ASTM D5185m		1065		
	Zinc	ppm	ASTM D5185m	1460	1349		
	Sulfur	ppm	ASTM D5185m		3371		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	33.4		
	Base Number (BN)	mg KOH/g	ASTM D2896	11.3	5.1		
	Visc @ 100°C	cSt	ASTM D445	15.5	11.8		





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0016934 Lab Number : 05158199

Unique Number : 9323480

Diagnosed

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Test Package: MOBCE (Additional Tests: FuelDilution, PercentFuel, TBN)

Received

Tested

: 16 Feb 2021 : 20 Jan 2021 - Jonathan Hester

: 14 Jan 2021

Contact: LEANNE KENDALL KendalLeanne@lec1.com

LESLIE EQUIPMENT COMPANY

T:

105 TENNIS CENTER DR.

F: (740)373-5570

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

Submitted By: ?

MARIETTA, OH

US 45750-9765