

Machine Id KENWORTH T-880 27 (S/N MJ446319) Component Diesel Engine Fluid TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (10 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		TR06101160	TR05888467	TR05687403
	Sample Date		Client Info		22 Jan 2024	26 Jun 2023	17 Oct 2022
	Machine Age	mls	Client Info		76105	61213	44864
	Oil Age	mls	Client Info		45439	30547	14198
	Filter Age	mls	Client Info		14892	16349	14198
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	60	63	40
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	7	7	4
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
	Silver	ppm	ASTM D5185m	>2	<1	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	22	22	18
	Lead	ppm	ASTM D5185m		12	3	3
	Copper	ppm	ASTM D5185m	>330	5	6	7
	Tin	ppm	ASTM D5185m	>15	2	3	2
	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	12	14	14
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		62	73	68
	Fuel		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	>6	0.8	0.7	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	15.6	12.6	11.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	32.2	28.9	25.1
	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		4	10	6
	Boron	ppm	ASTM D5185m		53	88	135
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	<1	0
	Molybdenum	ppm	ASTM D5185m		189	202	192
	Manganese	ppm	ASTM D5185m		2	2	2
	Magnesium	ppm	ASTM D5185m		481	505	466
	Calcium	ppm	ASTM D5185m		3791	4142	3817
	Phosphorus	ppm	ASTM D5185m		822	934	867
	Zinc	ppm	ASTM D5185m		1047	1109	1003
	Sulfur	ppm	ASTM D5185m		3421	4537	4327
	Outstat	A		05	00.5	10.0	45.0

Oxidation Abs/.1mm *ASTM D7414 >25

ASTM D445 15.5

Base Number (BN) mg KOH/g ASTM D2896

Visc @ 100°C cSt

19.2

13.4

22.5

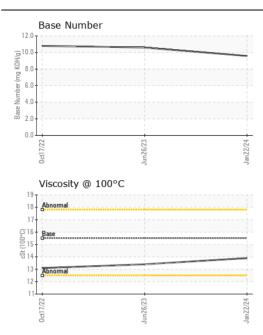
9.58

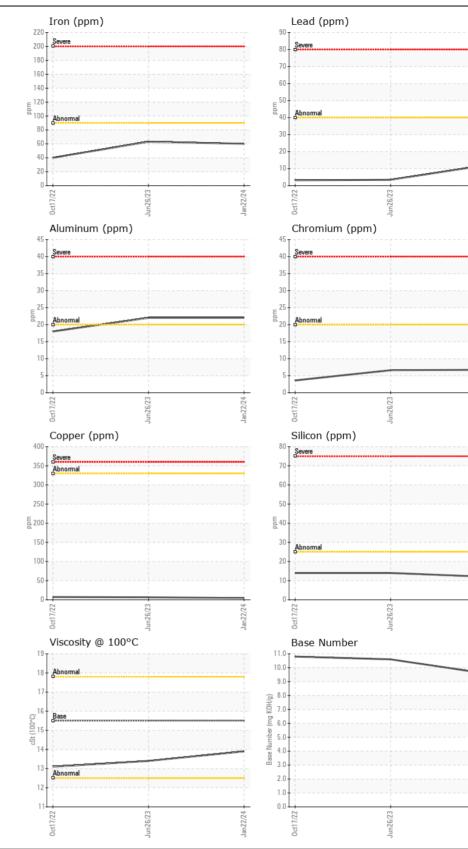
13.9

15.8

13.1

10.60 10.8





J.P. CARDILLO SON INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 1 MELVIN ST : TR06101160 : 26 Feb 2024 Lab Number : 06101160 : 28 Feb 2024 WAKEFIELD, MA Tested : 28 Feb 2024 - Sean Felton Unique Number : 10899390 US 01880 Diagnosed Test Package : MOB 2 Contact: MIKE RICHARDS 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) F: (781)245-3478

Contact/Location: MIKE RICHARDS - JPCWAK

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