**OIL ANALYSIS REPORT** 

**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

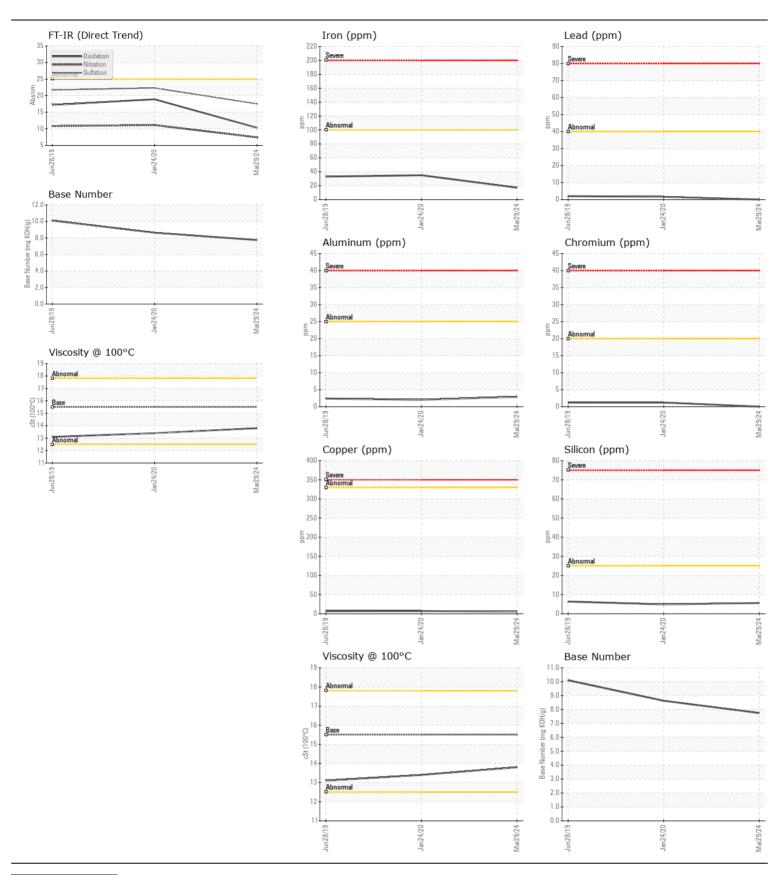
Machine Id

## **KENWORTH 3**

Component
Diesel Engine

TRC PRO-SPEC III SYNTHETIC BI END 15W40 (12 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06152667	TR04906692	TR04752277
	Sample Date		Client Info		29 Mar 2024	24 Jan 2020	28 Jun 2019
	Machine Age	mls	Client Info		676051	409336	382200
	Oil Age	mls	Client Info		16000	27136	26000
	Filter Age	mls	Client Info		16000	10000	26000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	17	35	33
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	1	1
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	2
	Lead	ppm	ASTM D5185m		0	2	2
	Copper	ppm	ASTM D5185m	>330	5	7	7
	Tin	ppm	ASTM D5185m		<1	<1	<1
	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	6	5	6
CONTAMINATION	Potassium	ppm	ASTM D5185m	-	6	4	3
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<b>\3</b>	0.4	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	11.1	10.8
	Sulfation	Abs/.1mm	*ASTM D7415		17.5	22.3	21.7
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUD CONDITION	0 "		AOTA DE LOS				_
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	4	/
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		0	31	11
	Barium	ppm	ASTM D5185m		0	0	0
	Monganosa	ppm	ASTM D5185m		1	<1	1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		9	14	19
	Calcium	ppm	ASTM D5185m		2290	3184	3670
	Phosphorus	ppm	ASTM D5185m		914	930	923
	Zinc	ppm	ASTM D5185m		1036	1048	1038
	Sulfur	ppm	ASTM D5185m	05	4112	4518	5489
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.3	18.9	17.2
	Base Number (BN)				7.75	8.63	10.1





Certificate L2367

Laboratory Sample No.

Lab Number : 06152667 Unique Number : 10982745 Test Package : MOB 2

: TR06152667

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 **Tested** : 18 Apr 2024

Diagnosed : 22 Apr 2024 - Sean Felton **DN HINES CO LLC** PO BOX 901

NAPAVINE, WA US 98565

Contact: JEFF WARREN

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.

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

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