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

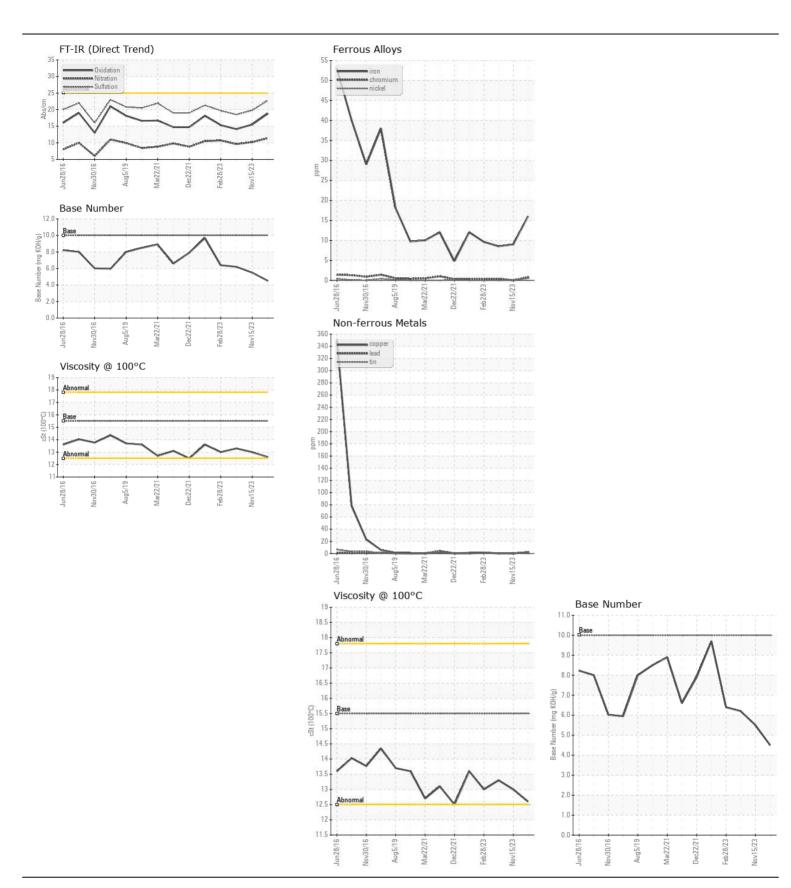
**NORMAL NORMAL NORMAL** 

Machine Id

## **KENWORTH T00738**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0856288	WC0824020	WC082385
	Sample Date		Client Info		28 Mar 2024	15 Nov 2023	24 Aug 202
	Machine Age	mls	Client Info		225895	217428	211066
	Oil Age	mls	Client Info		8467	6362	13718
	Filter Age	mls	Client Info		8467	6362	13718
	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	16	9	8
WEAIT	Chromium	ppm	ASTM D5185m		<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	77	<1	0	<1
	Silver	ppm	ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	3	4
	Lead	ppm	ASTM D5185m		2	0	<1
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m		1	0	0
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	. 05		0	
CONTAMINATION	Potassium	ppm	ASTM D5185m		5 4	3	3
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.5	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	10.2	9.6
	Sulfation	Abs/.1mm	*ASTM D7415		22.8	19.8	18.5
	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	NORM
	<b>Emulsified Water</b>		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		5	4	5
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		27	26	47
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		80	64	84
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		88	69	142
	Calcium	ppm	ASTM D5185m		2019	1761	1987
	Phosphorus	ppm	ASTM D5185m		930	788	948
	Zinc	ppm	ASTM D5185m		987	932	1149
	Sulfur	ppm Abo/1mm	ASTM D5185m	. 25	3591	2741	4045
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		18.8 4.5	15.5 5.5	14.1







Laboratory Sample No.

Lab Number : 06147956

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0856288

Unique Number : 10978034

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

Received : 12 Apr 2024 **Tested** Diagnosed

: 15 Apr 2024

: 15 Apr 2024 - Wes Davis

Contact: JOE ROSS jross@cjmillerllc.com T: (410)239-8006

F: (410)239-1051

Test Package : CONST (Additional Tests: TBN) Certificate L2367

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.

Report Id: CJMHAM [WUSCAR] 06147956 (Generated: 04/15/2024 12:12:59) Rev: 1

**CJ MILLER LLC** 

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