WEAR CONTAMINATION **FLUID CONDITION**

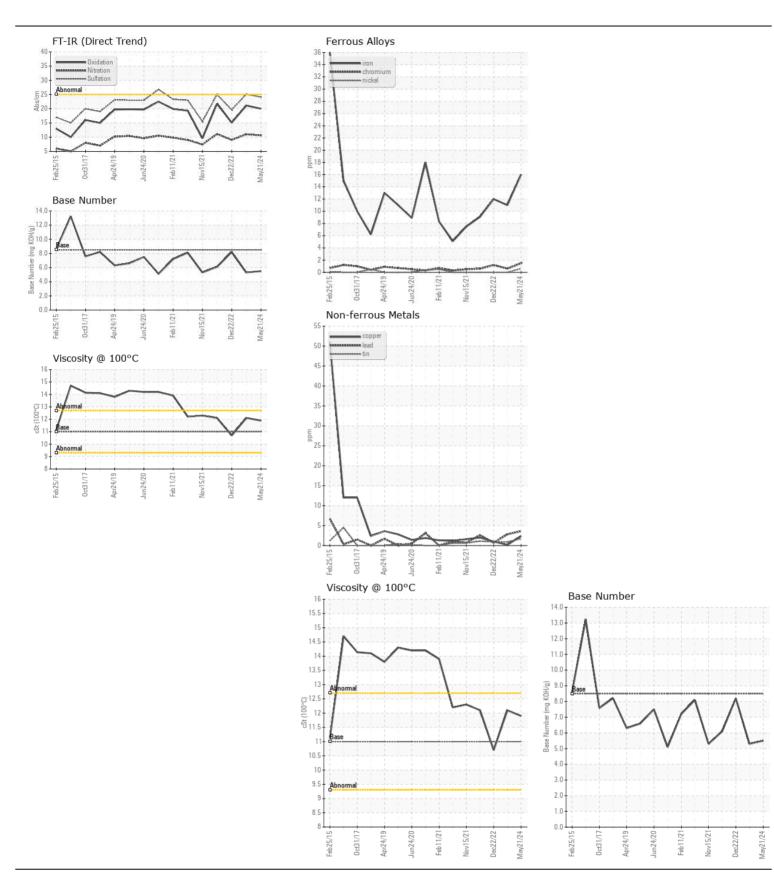
NORMAL NORMAL NORMAL

Machine Id

KENWORTH 21434

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0909691	WC0832034	WC076660
	Sample Date		Client Info		21 May 2024	27 Sep 2023	22 Dec 202
	Machine Age	mls	Client Info		122314	114370	104657
	Oil Age	mls	Client Info		7944	9723	8257
	Filter Age	mls	Client Info		7944	9723	8257
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
NEAD.			AOTM DEGOE	400		4.4	40
WEAR	Iron	ppm	ASTM D5185m		16	11	12
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	<1	1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m	0	<1	0	0
	Silver	ppm	ASTM D5185m		1	0	0
	Aluminum	ppm	ASTM D5185m		6	6	2
	Lead	ppm	ASTM D5185m ASTM D5185m		4 2	3	<1
	Copper Tin	ppm	ASTM D5185m			<1 <1	<1
	Vanadium	ppm	ASTM D5185m	>10	2 <1	0	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	5	7
	Potassium	ppm	ASTM D5185m	>20	23	23	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.4	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	10.6	11.0	9.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	25.1	19.6
	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
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	2	3
LOID CONDITION	Boron	ppm	ASTM D5185m	269	155	89	17
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	200	<1	<1	0
	Molybdenum	ppm	ASTM D5185m	0	14	5	57
	Manganese	ppm	ASTM D5185m	O	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	20	89	45	778
	Calcium	ppm	ASTM D5185m		2990	2271	1176
	Phosphorus	ppm	ASTM D5185m		1392	1039	1009
	Zinc	ppm	ASTM D5185m		1658	1228	1114
	Sulfur	ppm	ASTM D5185m		4808	3529	3347
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	21.1	15.1
	Base Number (BN)				5.5	5.3	8.2







Certificate L2367

Laboratory Sample No.

Lab Number : 06192018 Unique Number : 11048770

: WC0909691 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024 **Tested** : 29 May 2024

Diagnosed : 30 May 2024 - Don Baldridge

GUY M TURNER & TURNER TRANSFER

4505 SOUTH HOLDEN ROAD GREENSBORO, NC

US 27406

Contact: ROGER HIXSON rhixson@guymturner.com

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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.

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