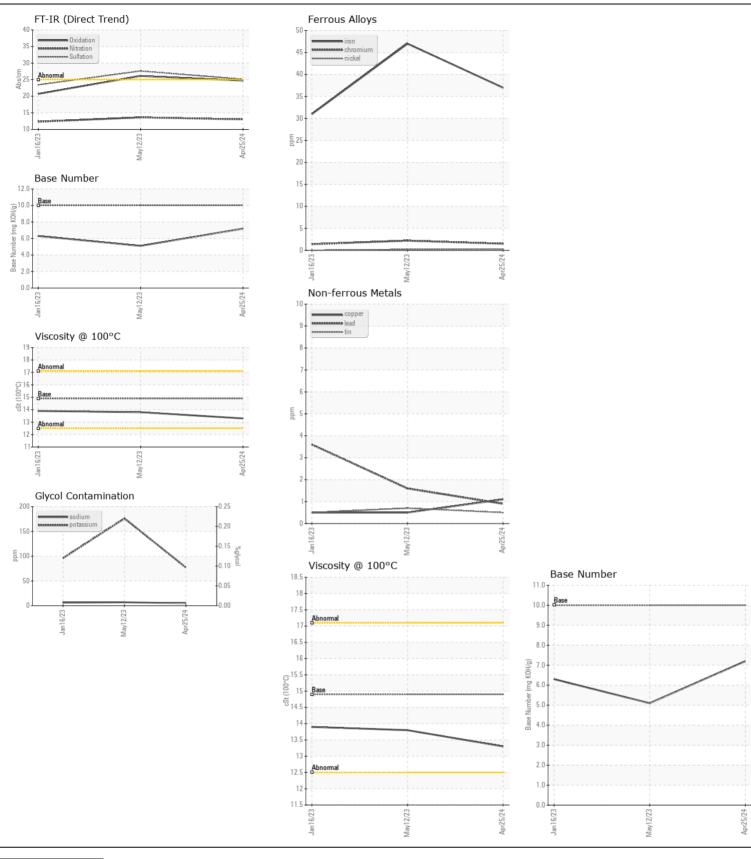
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

TRUCK - URBAN **KENWORTH 95**

Component
Diesel Engine

DECOMMENDATION	Toot	LIONA	Motherd	Limit/Alec-	Commercial	Lliotomid	l liata ::: O
RECOMMENDATION We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current PE0003157	History1 PE0001356	History2 PE0000479
	Sample Date		Client Info		25 Apr 2024	12 May 2023	16 Jan 2023
	Machine Age	hrs	Client Info		32322	5615	4713
	Oil Age	hrs	Client Info		486	902	838
	Filter Age	hrs	Client Info		486	902	838
	Oil Changed	1110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMA
VEAR	Iron	ppm	ASTM D5185m	>100	37	47	31
VEAT	Chromium	ppm	ASTM D5185m		2	2	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		- <1	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	2	3
	Lead	ppm	ASTM D5185m		<1	2	4
	Copper	ppm	ASTM D5185m		1	<1	<1
	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	10	6	5
	Potassium	ppm	ASTM D5185m	>20	<u> </u>	△ 176	4 96
Sodium and/or potassium levels are high.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.8	1.1	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	13.0	13.6	12.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	27.6	23.4
	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		5	7	6
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		17	20	25
oil.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		57	81	77
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		784	81	121
	Calcium	ppm	ASTM D5185m		1282	2160	2021
	Phosphorus	ppm	ASTM D5185m		1034	987	953
	Zinc	ppm	ASTM D5185m		1242	1226	1175
	Sulfur Oxidation	ppm	ASTM D5185m	0.5	3445	4102	3926
	()VIGOTION	Abs/.1mm	*ASTM D7414	>25	24.7	26.1	20.7
	Base Number (BN)				7.2	5.1	6.3







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PE0003157 Lab Number : 06212756 Unique Number : 11085620

Received **Tested** Diagnosed

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

: 19 Jun 2024 : 19 Jun 2024 - Angela Borella

: 17 Jun 2024

110 Commerce St Aberdeen, WA US 98520 Contact: Sean McNealley

Test Package : CONST (Additional Tests: FT-IR, Glycol, ICP, KV100, SCREEN, TBN) 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.

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F: