WEAR CONTAMINATION FLUID CONDITION

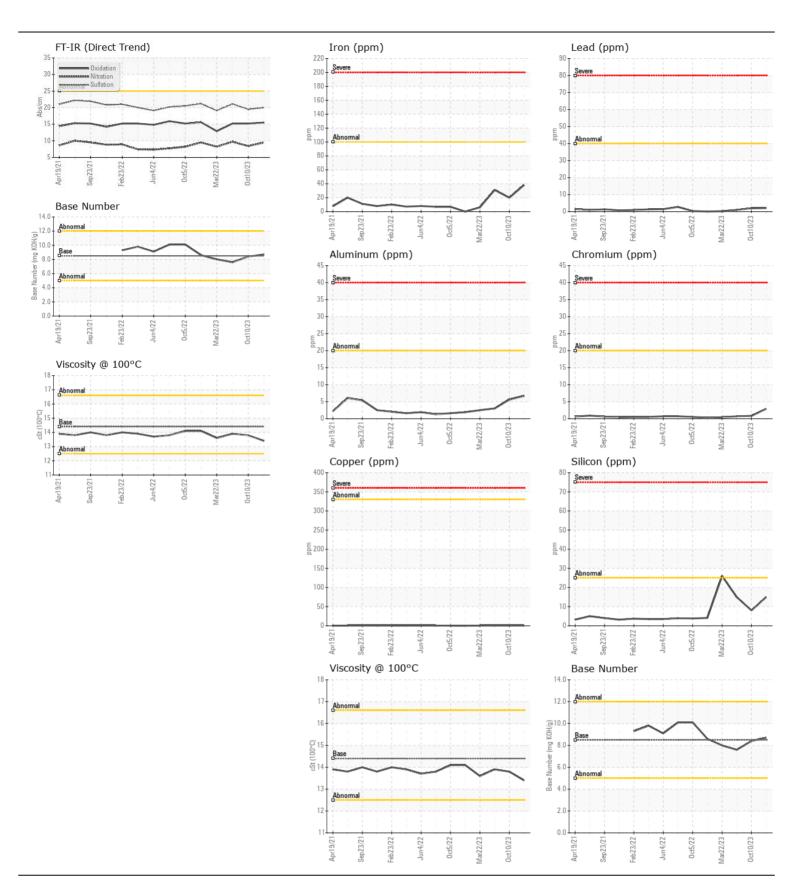
NORMAL NORMAL

Machine Id

KENWORTH 1006

Component
Diesel Engine

DECOMMENDATION	- .			11 1:00			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LW0009001		LW0006653
	Sample Date Machine Age	mls	Client Info		09 Apr 2024	10 Oct 2023 0	13 Jul 2023 0
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed	11110	Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	38	20	31
	Chromium	ppm	ASTM D5185m	>20	3	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	7	6	3
	Lead	ppm	ASTM D5185m	>40	2	2	1
	Copper	ppm	ASTM D5185m	>330	<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	<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		15	8	15
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		14	22	6
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	% A b a /ava	*ASTM D7844		0.9	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624 *ASTM D7415	>20	9.5	8.4	9.7
	Sulfation Silt	Abs/.1mm	*Visual	NONE	20.0 NONE	19.5 NONE	21.1 NONE
	Debris	scalar 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
FLUID CONDITION	Sodium	nnm	ASTM D5185m	>216	2	2	
FLUID CONDITION	Boron	ppm	ASTM D5185m		4	6	<1 35
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		0	1	0
	Molybdenum	ppm	ASTM D5185m		62	54	23
	Manganese	ppm	ASTM D5185m	100	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	958	872	681
	Calcium	ppm	ASTM D5185m		1141	1070	1271
	Phosphorus	ppm	ASTM D5185m		1110	987	1014
	Zinc	ppm	ASTM D5185m		1238	1213	1161
	Sulfur	ppm	ASTM D5185m	4250	3299	3242	3513
	Oxidation	Abs/.1mm	*ASTM D7414		15.5	15.2	15.2
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.7	8.4	7.6







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LW0009001 Lab Number : 06148429

Received **Tested** Unique Number: 10978507

: 15 Apr 2024 : 16 Apr 2024 Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 16 Apr 2024 - Wes Davis

LRS - NILES 33541 REUM RD NILES, MI US 49120

Contact: JOHN HUGHES johnh@michianarecyclinganddisposal.com

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.

T: (269)684-0900 X:124 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: