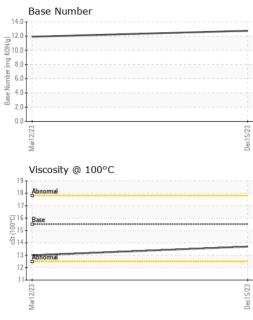
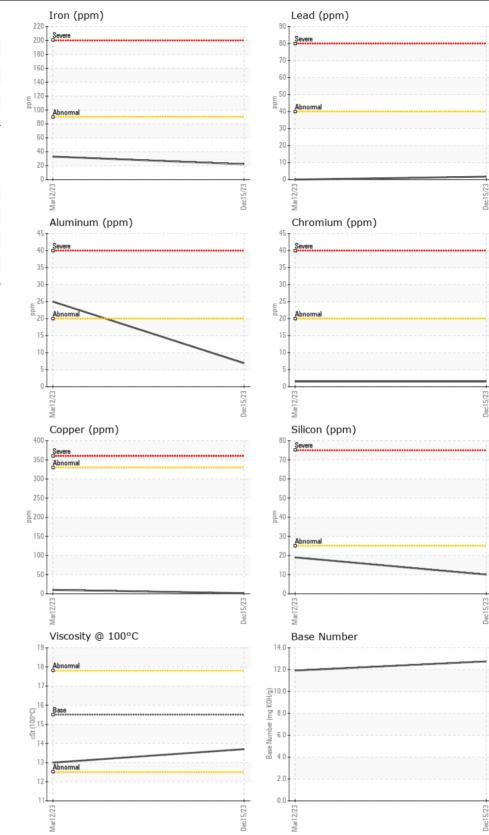


**OIL ANALYSIS REPORT** 

## Machine Id **KENWORTH 112** Component Diesel Engine TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (11 GAL)

	Toot		Mathad	Limit/Abn	Cummont	Lliotorud	L liotom (O
RECOMMENDATION	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current TR06055543	History1 TR05829125	History2
Resample at the next service interval to monitor.	Sample Date		Client Info		15 Dec 2023	12 Mar 2023	
	Machine Age	mls	Client Info		165000	67500	
	Oil Age	mls	Client Info		50000	48000	
	Filter Age	mls	Client Info		50000	48000	
	Oil Changed	1115	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>90	22	33	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	2	
	Nickel	ppm	ASTM D5185m	>2	<1	<1	
	Titanium	ppm	ASTM D5185m	>2	<1	0	
	Silver	ppm	ASTM D5185m	>2	<1	0	
	Aluminum	ppm	ASTM D5185m	>20	7	25	
	Lead	ppm	ASTM D5185m	>40	2	0	
	Copper	ppm	ASTM D5185m	>330	2	10	
	Tin	ppm	ASTM D5185m		1	1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	19	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	15	70	
	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>6	0.5	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.8	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	22.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
	C a aliunaa				-	4	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		7	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	5	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		0	5 2	
	Manganese	ppm			<1 24		
	Magnesium	ppm	ASTM D5185m		24	142	
	Calcium	ppm	ASTM D5185m ASTM D5185m		4879 963	4357 884	
	Phosphorus	ppm					
	Zinc	ppm	ASTM D5185m		1158	1124	
	Sulfur	ppm	ASTM D5185m	. 05	3979	4137	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	13.7	
	Base Number (BN)	mg KOH/g	ASTM D2896	45.5	12.75	11.92	
	Visc @ 100°C	cSt	ASTM D445	15.5	13.7	13.0	





DANNY RILEY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : TR06055543 Recieved : 09 Jan 2024 1204 CREEKMERE Lab Number : 06055543 : 10 Jan 2024 CANYON, TX Diagnosed : 10821492 Diagnostician Unique Number : Wes Davis US 79015 Test Package : MOB 2 Contact: MIKE LEWIS Certificate L2367 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: MIKE LEWIS - DANCANTR