**WEAR CONTAMINATION FLUID CONDITION** 

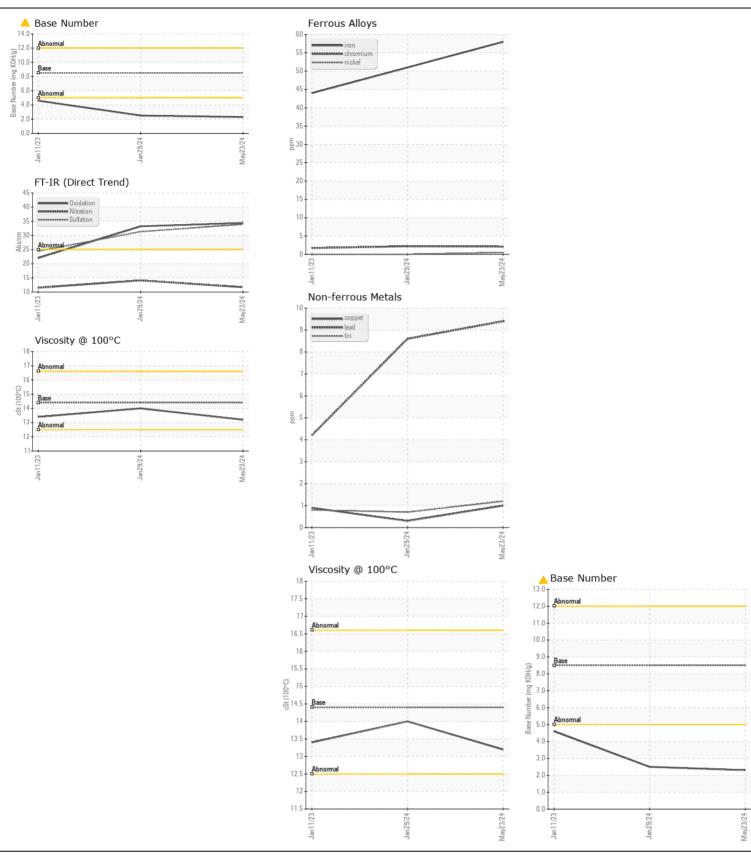
**NORMAL NORMAL ABNORMAL** 

## GLENN LEROY MARTIN-TLD-GLENN TRANSPORT

## **NAVISTAR 3019287**

**Diesel Engine** 

DECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History	History?
PRECOMMENDATION  Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.		UOIVI		LIMIU/ADM	NL0001763	History1 NL0001994	History2 NL000088
	Sample Number Sample Date		Client Info		23 May 2024		11 Jan 202
	Machine Age	mls	Client Info		424051	375723	237846
	Oil Age	mls	Client Info		53857	61055	39789
	Filter Age	mls	Client Info		53857	61055	39789
	Oil Changed	11110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<b>&gt;100</b>	58	51	44
VEAIT	Chromium	ppm	ASTM D5185m		2	2	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	7 7	0	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		9	6	5
	Lead	ppm	ASTM D5185m	>40	9	9	4
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	11	10	7
	Potassium	ppm	ASTM D5185m	>20	12	1	4
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	0.8	0.9	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	11.7	14.1	11.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	33.9	31.3	24.4
	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 Emulsified Water	scalar	*Visual	NORML >0.2	NORML NEG	NORML NEG	NORM NEG
	Emulsined Water	scalar	VISUAI	>0.2			NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	2	1
The BN level is low. The condition of the oil is acceptable for the time	Boron	ppm	ASTM D5185m		35	19	3
in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	78	69	67
	Manganese	ppm	ASTM D5185m	450	1	<1	<1
	Magnesium	ppm	ASTM D5185m		524	923	952
	Calcium	ppm	ASTM D5185m		1359	1069	1113
	Phosphorus	ppm	ASTM D5185m		1041	1062	940
	Zinc	ppm		1350	1298	1300	1263
	Sulfur	ppm Abo/1mm	ASTM D5185m		3117	2568	3033
	Oxidation	Abs/.1mm	*ASTM D7414		34.4 <b>2.3</b>	33.2 <b>2.5</b>	22.0
	Base Number (BN)	mg KOH/g	ASTM D2896	0.0	<u> </u>	<u> </u>	4.6







Certificate L2367

Laboratory Sample No.

: NL0001763 Lab Number : 06193391 Unique Number : 11050143 Test Package : FLEET

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

: 30 May 2024 Diagnosed : 30 May 2024 - Sean Felton

KIRK NATIONALEASE - SHOP 81 RM

3885 W MICHIGAN AVE

SIDNEY, OH US 45365

Contact: SARAH BLEININGER sarah\_bleininger@knl.cc

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. F: (937)498-9920 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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