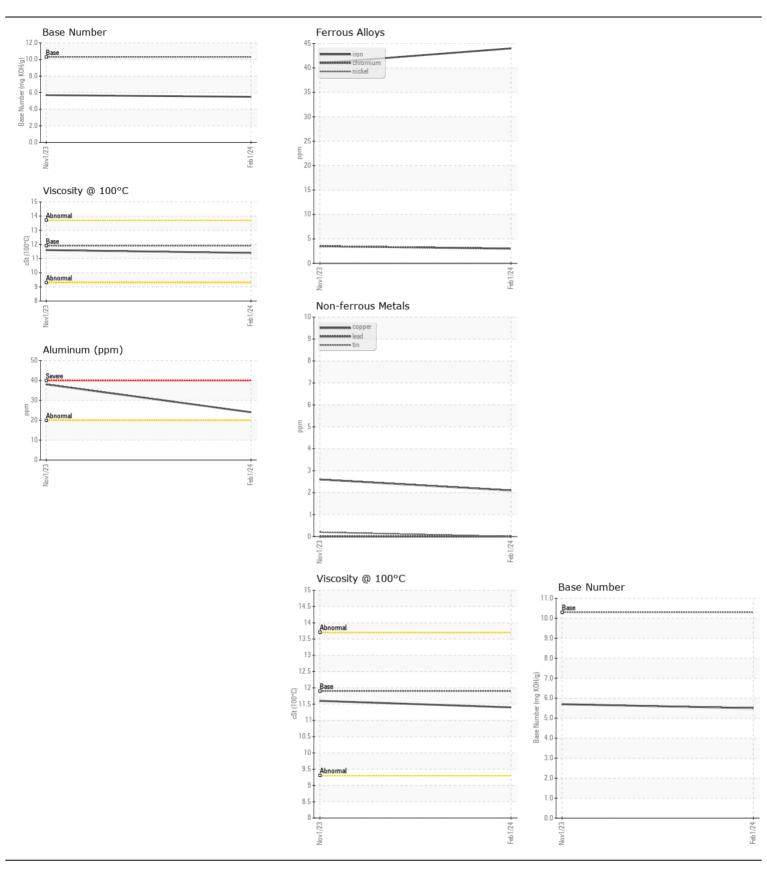
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id **13013** 

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0833213	WC0833148	
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		01 Feb 2024	01 Nov 2023	
	Machine Age	mls	Client Info		93176	45772	
	Oil Age	mls	Client Info		47404	33433	
	Filter Age	mls	Client Info		47404	33433	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>100	44	41	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		3	4	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		24	38	
	Lead	ppm	ASTM D5185m	>40	0	0	
	Copper	ppm	ASTM D5185m	>330	2	3	
	Tin	ppm	ASTM D5185m	>15	0	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CALTANUMATION	0.11.		AOTM DEGOE	05			
CONTAMINATION	Silicon	ppm	ASTM D5185m		11	11	
Elevated aluminum (AI) 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		74	120	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	% Ala a /a rea	*ASTM D7844		1 10.5	0.7	
	Nitration	Abs/tmm	*ASTM D7624	>20	10.5	10.0 23.1	
	Sulfation	Abs/.1mm	*ASTM D7415		24.8		
	Silt	scalar	*Visual	NONE	NONE NONE	NONE NONE	
	Debris	scalar	*Visual		NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE NORML	NORML	NORML	
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		4	3	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		17	22	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		<1	4	
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m		773	760	
	Calcium	ppm	ASTM D5185m		1404	1409	
	Phosphorus	ppm	ASTM D5185m		674	736	
	Zinc	ppm	ASTM D5185m		812	904	
	Sulfur	ppm	ASTM D5185m		2922	2830	
	On the last the second	Aha/1mm	*ASTM D7414	<b>-25</b>	18.7	17.6	
	Oxidation Base Number (BN)	Abs/.1mm			5.5	5.7	







Certificate L2367

Laboratory Sample No.

: WC0833213 Lab Number : 06098942 Unique Number : 10897172 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Feb 2024 : 26 Feb 2024 **Tested** 

: 26 Feb 2024 - Wes Davis Diagnosed

LTI/MILKY WAY - MOSES 120 WISER LANE MOSES LAKE, WA

US 98837 Contact: MIGUEL PEREZ

mperez@lynden.com; dougb@wearcheckusa.com

T: (509)765-5840 F: (500)765-5636

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)