

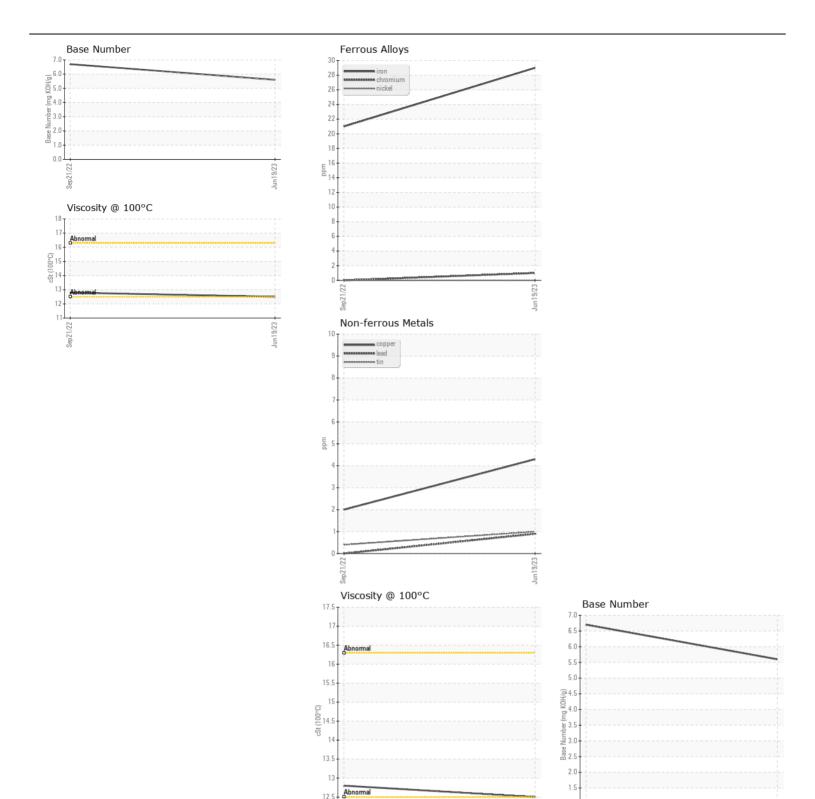
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

## MAINTENANCE

## CHEVROLET/3500HD T326

**Diesel Engine** 

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0810970	WC0743255	
	Sample Date		Client Info		19 Jun 2023	21 Sep 2022	
	Machine Age	mls	Client Info		206414	205755	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
/EAR	Iron	ppm	ASTM D5185m	>100	29	21	
WEAR	Chromium	ppm	ASTM D5185m		1	0	
All component wear rates are normal.	Nickel		ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	74	<1	0	
	Silver		ASTM D5185m	. 2	0	0	
	Aluminum	ppm	ASTM D5185m		4	2	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m	-	4	2	
	Tin	ppm	ASTM D5185m		1	<1	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal				NONE	NONE	
<u></u>	reliow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	6	
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	>20	10	6	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	12.1	11.8	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	22.4	
	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	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>150	9	8	
	Boron	ppm	ASTM D5185m		43	30	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		51	48	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		458	431	
	Calcium	ppm	ASTM D5185m		1725	1643	
	Phosphorus	ppm	ASTM D5185m		895	884	
	Zinc	ppm	ASTM D5185m		1157	1107	
	Sulfur	ppm	ASTM D5185m		3959	3556	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	19.0	
	Base Number (BN)			7 20	5.6	6.7	
	Visc @ 100°C	mg norng	ASTM D445		12.5	12.8	







Certificate L2367

Laboratory Sample No.

: WC0810970 Lab Number : 05892050 Unique Number : 10547860

11.5

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

**Tested** Diagnosed Test Package : CONST (Additional Tests: TBN)

: 07 Jul 2023 : 07 Jul 2023 : 07 Jul 2023 - Wes Davis

2202 EAST RIVER ST

US 98421 Contact: MICHELE MARTINEZ mmartinez@metrometalswa.com T: (800)562-8464

METRO METALS NORTHWEST INC

\* - 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)

TACOMA, WA