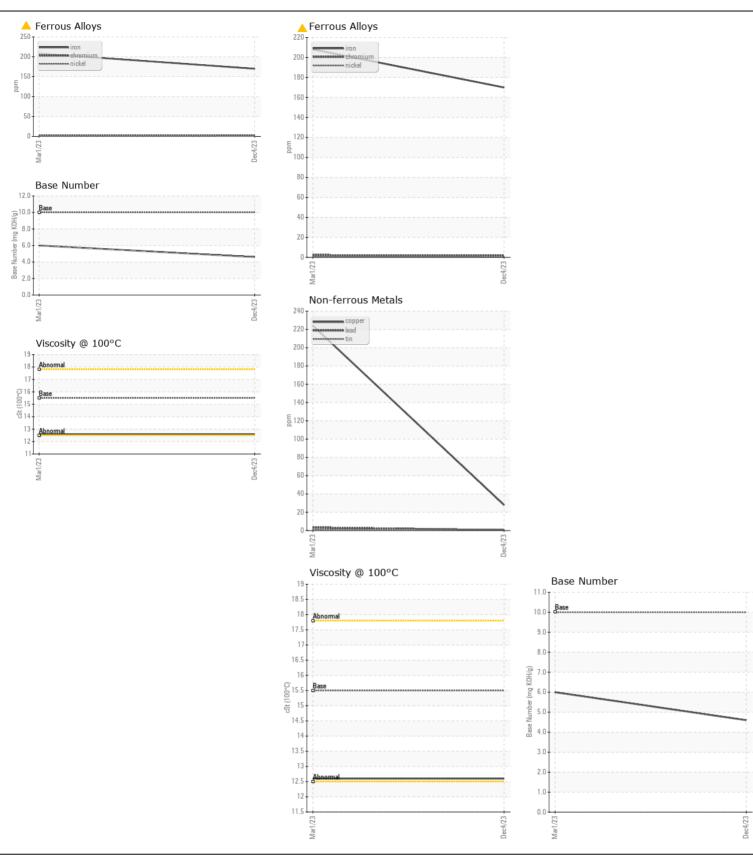


**WEAR** CONTAMINATION **FLUID CONDITION**  **ABNORMAL NORMAL NORMAL** 

## **GM RENTON DUMP TRUCK SHOP** [GM RENTON DUMP TRUCK SHOP] 16-763

Component Main Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PE0002336	PE0001846	
	Sample Date		Client Info		04 Dec 2023	01 Mar 2023	
	Machine Age	hrs	Client Info		2229	992	
	Oil Age	hrs	Client Info		1237	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAD	lvan		ACTM DE10Em	. 75	470	A 200	
WEAR	Iron	ppm	ASTM D5185m		<u> </u>	<u>^</u> 208	
	Chromium	ppm	ASTM D5185m		2	2	
	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		13	23	
	Lead	ppm	ASTM D5185m		<1	3	
	Copper	ppm	ASTM D5185m		28	<u>^</u> 224	
	Tin	ppm	ASTM D5185m	>14	1	1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	18	<b>△</b> 36	
	Potassium	ppm	ASTM D5185m	>20	30	53	
	Fuel	1-1-	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		1.3	1	
	Nitration	Abs/cm	*ASTM D7624	>20	12.9	13.4	
	Sulfation	Abs/.1mm	*ASTM D7415		29.3	27.1	
	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		*Visual	>0.1	NEG	NEG	
FLUID CONDITION	- "						
	Sodium	ppm	ASTM D5185m	>75	3	5	
	Boron	ppm	ASTM D5185m		11	28	
	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		14	43	
	Manganese	ppm	ASTM D5185m		2	8	
	Magnesium	ppm	ASTM D5185m		134	528	
	Calcium	ppm	ASTM D5185m		1929	1592	
	Phosphorus	ppm	ASTM D5185m		921	851	
	Zinc	ppm	ASTM D5185m		1072	1156	
	Sulfur	ppm	ASTM D5185m		3042	2788	
	Oxidation	Abs/.1mm	*ASTM D7414		21.0	24.5	
	Base Number (BN)	mg KOH/g	ASTM D2896	10	4.6	6.0	
	Visc @ 100°C	cSt	ASTM D445		12.6	12.6	







Laboratory Sample No. Lab Number **Unique Number** 

: PE0002336 : 06060120 : 10831502

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

: 12 Jan 2024 Diagnostician : Doug Bogart

: 16 Jan 2024 Test Package : CONST (Additional Tests: FT-IR, ICP, KV100, SCREEN, TBN)

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

US 98108 Contact: Jesse Patterson oilsamples@gmccinc.com T: 1(866)292-1303 F:

9125 10TH AVE SOUTH

SEATTLE, WA

\* - 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)

Gary Merlino Construction - Off Road Shop