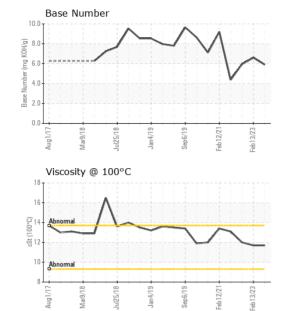
WEAR CONTAMINATION FLUID CONDITION

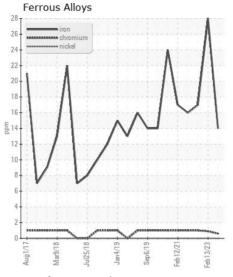
NORMAL NORMAL NORMAL

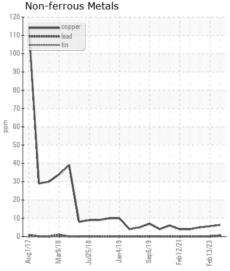
GM Renton Dump Truck Shop [GM Renton Dump Truck Shop] S12-216

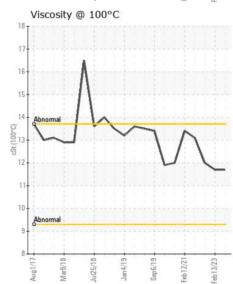
Component Diesel Engine

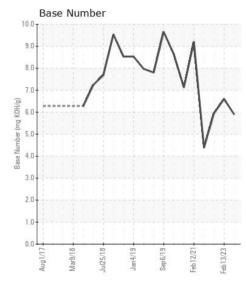
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PE0002343	PE0001850	PE1223062
	Sample Date		Client Info		08 Dec 2023	13 Feb 2023	23 May 202
	Machine Age	hrs	Client Info		13585	12689	11783
	Oil Age	hrs	Client Info		896	1823	917
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Changed	Not Chang
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<110	14	28	17
VLAN	Chromium	ppm	ASTM D5185m		<1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	72	<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m		3	5	3
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		6	6	5
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	O'''					_	
	Silicon	ppm	ASTM D5185m		6	7	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	6	3
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water Glycol		WC Method	>0.2	NEG NEG	NEG NEG	NEG NEG
	Soot %	%	*ASTM D7844	. 2	0.6	0.9	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.9	11.7	12
	Sulfation	Abs/.1mm	*ASTM D7024		22.6	24.0	
	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	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		47	15	25
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		15	53	58
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		210	853	978
	Calcium	ppm	ASTM D5185m		1816	1125	1075
	Phosphorus	ppm	ASTM D5185m		1000	944	1010
	Zinc	ppm	ASTM D5185m		1134	1175	1202
	Sulfur	ppm	ASTM D5185m	0.5	3162	3123	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	21.0	19
	Base Number (BN)	mg KOH/g	ASTM D2896		5.9	6.6	5.95













Certificate L2367

Laboratory Sample No. Lab Number

: 10831501 **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PE0002343 : 06060119

Recieved

: 12 Jan 2024 Diagnosed Diagnostician : Doug Bogart

: 16 Jan 2024

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

Gary Merlino Construction - Off Road Shop 9125 10TH AVE SOUTH

SEATTLE, WA US 98108

Contact: Zack oilsamples@gmccinc.com

T: F:

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)