WEAR CONTAMINATION FLUID CONDITION

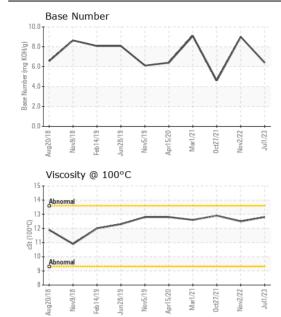
NORMAL NORMAL

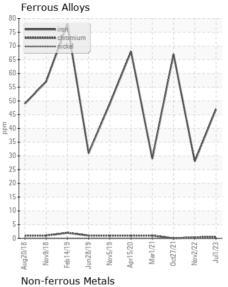
GM Renton Dump Truck Shop

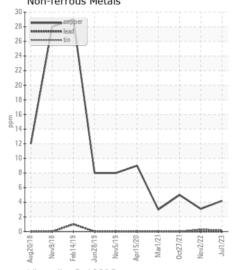
[GM Renton Dump Truck Shop] S12-219

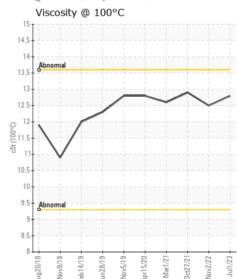
Component Diesel Engine

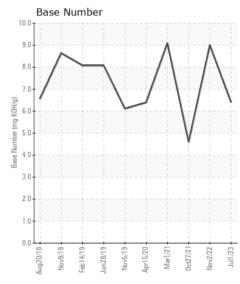
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PE0001225	PE0000302	PE1229023
Resample at the next service interval to monitor.	Sample Date		Client Info		01 Jul 2023	02 Nov 2022	27 Oct 202
	Machine Age	hrs	Client Info		6725	5805	4888
	Oil Age	hrs	Client Info		1837	917	1799
	Filter Age	hrs	Client Info		1837	0	
	Oil Changed	1110	Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status		Olichi illio		NORMAL	NORMAL	MARGINA
A/C A D	t		AOTM DEADE	400			07
WEAR	Iron	ppm	ASTM D5185m		47	28	67
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	0
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	8	5	12
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>330	4	3	5
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	7	8
SOTTAMINATION	Potassium	ppm	ASTM D5185m		17	14	33
There is no indication of any contamination in the oil.	Fuel	ρρ	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 U.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\3	1.2	0.8	0.6
	Nitration	Abs/cm		>20	12.4	11.2	15
	Sulfation	Abs/.1mm	*ASTM D7415		26.1	23.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris		*Visual	NONE	NONE	NONE	
		scalar					
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	<1	4
The DNI was different and the tile and to excitate the aller the Police and a detection to the	Boron	ppm	ASTM D5185m		24	31	17
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		58	68	73
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		1012	1138	1254
	Calcium	ppm	ASTM D5185m		1269	1058	1322
	Phosphorus	ppm	ASTM D5185m		1088	1116	1276
	Zinc	ppm	ASTM D5185m		1395	1356	1533
	Sulfur	ppm	ASTM D5185m		3859	3940	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	22.9	19.8	27
	Base Number (BN)			5	6.4	9	<u>4.60</u>
						~	













Certificate L2367

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

: PE0001225 : 05903673

: 10565029

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 20 Jul 2023 Diagnosed

: 24 Jul 2023

Diagnostician : Don Baldridge 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:

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)

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