

# **OIL ANALYSIS REPORT**

## **NORMAL**

# GM Renton Dump Truck Shop [GM Renton Dump Truck Shop] s12-225

**Diesel Engine** 

CASTROL Vecton LD 10W30 (--- GAL)

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

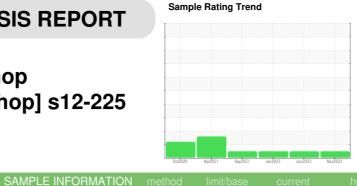
All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



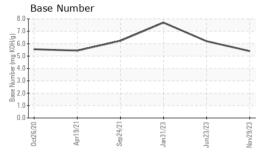
SAMI LE IM OTT	VIATION	memou	IIIIII/Dase	Current	Thotory	HISTOLYZ
Sample Number		Client Info		PE0001278	PE0001224	PE0000315
Sample Date		Client Info		29 Nov 2023	23 Jun 2023	31 Jan 2023
Machine Age	hrs	Client Info		6323	5425	4559
Oil Age	hrs	Client Info		898	1803	937
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method		<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method	7 0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base		history1	history2
Iron	10.10.100		>100		44	27
	ppm	ASTM D5185m		24 <1		
Chromium Nickel	ppm	ASTM D5185m ASTM D5185m	>20 >4	0	<1 0	<1
	ppm		>4	0	0	0
Titanium Silver	ppm	ASTM D5185m ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>3	2	4	3
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	2	3	3
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m	>10			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppiii		line it //e e e e			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		37	22	29
Barium	ppm	ASTM D5185m		2	0	0
Monganasa	ppm	ASTM D5185m		10 0	48	59 <1
Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m		142	<1 856	1017
Calcium	ppm	ASTM D5185m		1978	1371	1077
Phosphorus	ppm ppm	ASTM D5185m		866	1008	964
Zinc	ppm	ASTM D5185m		1104	1296	1225
Sulfur	ppm	ASTM D5185m		3516	3643	3496
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	6
Sodium	ppm	ASTM D5185m	720	<1	2	1
Potassium	ppm	ASTM D5185m	>20	9	9	7
INFRA-RED	le le	method	limit/base	current	history1	history2
	0/					
Soot %	%	*ASTM D7844	>3	10.5	1.3	0.9
Nitration	Abs/cm	*ASTM D7624	>20	10.5	12.2	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	26.9	22.6
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	23.8	19.1
Page Number (DNI)	ma 1/011/a	ACTM DOOGS		E 1	6.0	7 7

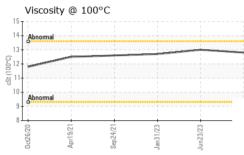
Base Number (BN) mg KOH/g ASTM D2896

6.2



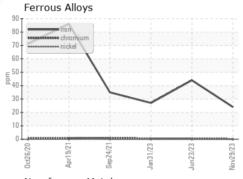
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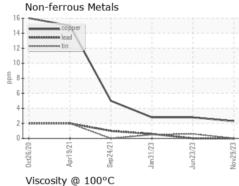


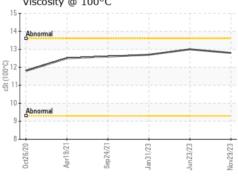


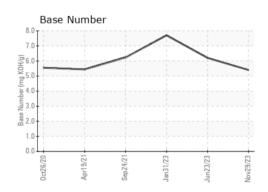
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		metnoa	ilmit/base	current	nistory i	nistory2	
Visc @ 100°C	cSt	ASTM D445		12.8	13.0	12.7	













Laboratory Sample No. Lab Number Unique Number : 10776062

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PE0001278 : 06026271

Received

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

: 06 Dec 2023 : 07 Dec 2023 Gary Merlino Construction - Off Road Shop 9125 10TH AVE SOUTH SEATTLE, WA

US 98108 Contact: Zack oilsamples@gmccinc.com

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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