

OIL ANALYSIS REPORT

VISCOSITY



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

Auxiliary Engine

CASTROL CRB Multi 15W-40 CK-4 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

▲ Fluid Condition

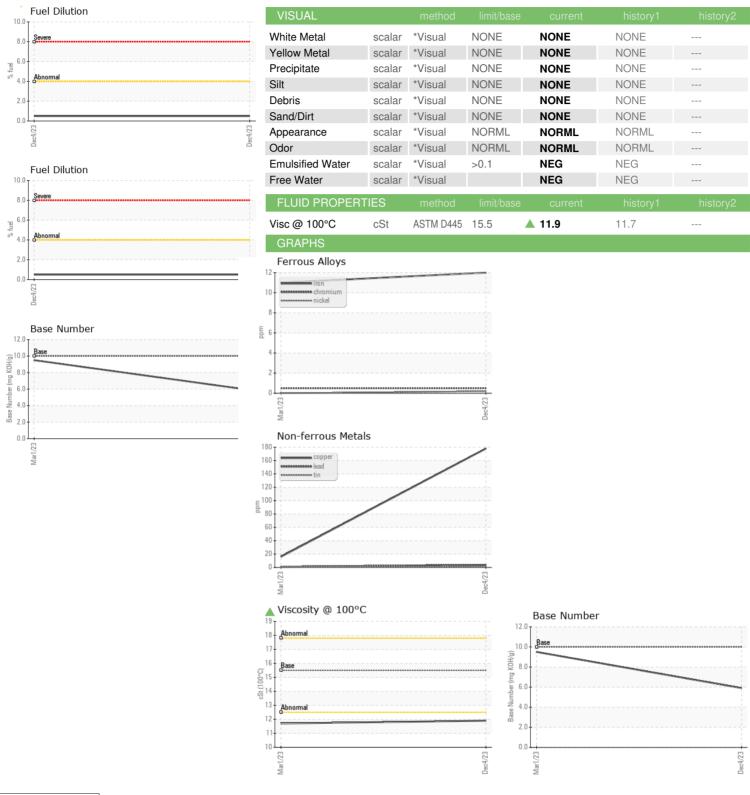
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



SAMPLE INFORM	MATION	method	ilmit/base	current	nistory i	nistory2
Sample Number		Client Info		PE0002337	PE0001847	
Sample Date		Client Info		04 Dec 2023	01 Mar 2023	
Machine Age	hrs	Client Info		1138	520	
Oil Age	hrs	Client Info		618	0	
Oil Changed	1110	Client Info		Changed	Changed	
Sample Status		Oliciti IIIIo		ATTENTION	NORMAL	
Sample Status				ATTENTION	NONIVIAL	
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	12	11	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel		ASTM D5185m	>2	<1	0	
	ppm		>2	<1	0	
Titanium	ppm	ASTM D5185m				
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	3	
Lead	ppm	ASTM D5185m	>40	4	<1	
Copper	ppm	ASTM D5185m	>330	178	16	
Tin	ppm	ASTM D5185m	>15	2	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		20	66	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		18	48	
Manganese	ppm	ASTM D5185m		<1	2	
Magnesium	ppm	ASTM D5185m		193	457	
Calcium	ppm	ASTM D5185m		1960	1676	
Phosphorus	ppm	ASTM D5185m		965	879	
Zinc	ppm	ASTM D5185m		1121	1125	
Sulfur	ppm	ASTM D5185m		3221	3209	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	
Sodium	ppm	ASTM D5185m		2	1	
Potassium	ppm	ASTM D5185m	>20	0	1	
Fuel	%	ASTM D3524	>4.0	0.5	<1.0	
	70					history O
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.7	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.7	19.6	
Base Number (BN)	mg KOH/g	ASTM D2896	10	5.9	9.5	



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Certificate L2367

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

: PE0002337 : 06060122 : 10831504

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Jan 2024 Diagnosed

: 16 Jan 2024 Diagnostician : Doug Bogart Gary Merlino Construction - Off Road Shop

9125 10TH AVE SOUTH SEATTLE, WA US 98108

Test Package : CONST (Additional Tests: FT-IR, FuelDilution, ICP, KV100, PercentFuel, SCREEN, TBN) Contact: Jesse Patterson oilsamples@gmccinc.com

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

T: 1(866)292-1303

* - 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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