

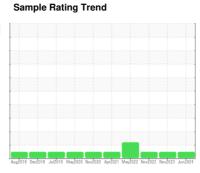
OIL ANALYSIS REPORT



GM Seattle Off Raod Shop [GM Seattle Off Raod Shop] 24-837

Diesel Engine

Fluid SHELL 15W40 (--- 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

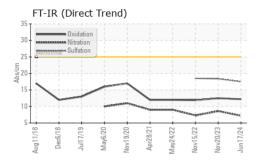
Fluid Condition

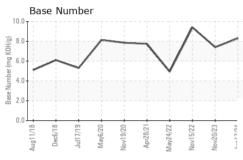
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

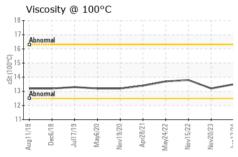
Aug2016 ปิดเวียง ปี ปิดเวียง May2020 Nov2020 ค.ค.เวียว Nov2022 Nov2022 Nov2022 Nov2023 Jun2024						
SAMPLE INFORM	//ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0003091	PE0000539	PE0001055
Sample Date		Client Info		17 Jun 2024	20 Nov 2023	15 Nov 2022
Machine Age	hrs	Client Info		6472	6182	5852
Oil Age	hrs	Client Info		290	553	223
Oil Changed	1113	Client Info		Not Changd	Changed	Not Changd
Sample Status		Ollerit IIIIO		NORMAL	NORMAL	NORMAL
		and the set	Parel Maria			
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	3	9	4
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	<1	2
Lead	ppm	ASTM D5185m	>40	0	1	<1
Copper	ppm	ASTM D5185m	>330	1	2	<1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		58	63	70
Barium	ppm	ASTM D5185m		0	<1	1
Molybdenum	ppm	ASTM D5185m		34	21	22
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		588	314	314
Calcium	ppm	ASTM D5185m		1668	1978	2075
Phosphorus	ppm	ASTM D5185m		993	862	938
Zinc	ppm	ASTM D5185m		1216	1052	1102
Sulfur	ppm	ASTM D5185m		4080	3916	4460
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	3
Sodium	ppm	ASTM D5185m	>150	1	0	0
Potassium	ppm	ASTM D5185m	>20	6	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.2	8.6	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	18.4	18.5
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.2	12.5	11.9
Base Number (BN)	mg KOH/g	ASTM D2896	- 20	8.3	7.4	9.4
Dasc Number (DIN)	ing Northy	AOTIVI DE000		0.0	7.7	J.T



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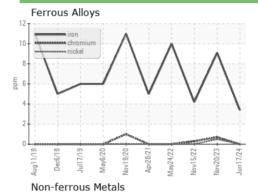


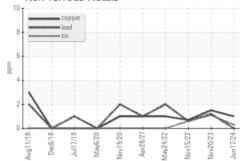


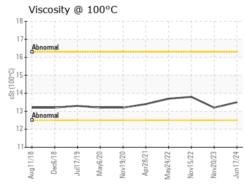
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

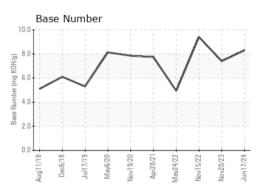
FLUID PROPER	KIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445		13.5	13.2	13.8

GRAPHS













Report Id: GARSEA [WUSCAR] 06220571 (Generated: 06/28/2024 01:01:47) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PE0003091 Lab Number : 06220571 Unique Number : 11098768

Received **Tested** Diagnosed

: 25 Jun 2024 : 26 Jun 2024

: 27 Jun 2024 - Don Baldridge

9125 10TH AVE SOUTH SEATTLE, WA US 98108 Contact: Jesse Patterson

Gary Merlino Construction - Off Road Shop

Test Package : CONST (Additional Tests: FT-IR, ICP, KV100, SCREEN, TBN) Certificate 12367 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.

oilsamples@gmccinc.com T: 1(866)292-1303

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: Stoneway Concrete - Seattle - Jesse Patterson