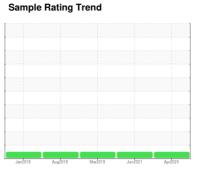


OIL ANALYSIS REPORT

GM Seattle Off Raod Shop [GM Seattle Off Raod Shop] 28-121

Diesel Engine

SHELL 15W40 (--- GAL)





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

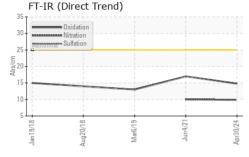
Fluid Condition

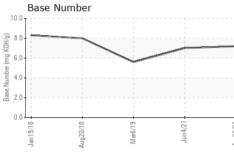
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

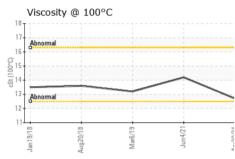
SAMPLE INFORM	MOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0003396	PE12291242	PE12292055
Sample Date		Client Info		30 Apr 2024	04 Jun 2021	06 Mar 2019
Machine Age	hrs	Client Info		1441	1247	810
Oil Age	hrs	Client Info		566	681	244
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	23	19	16
Chromium	ppm	ASTM D5185m	>20	1	1	0
Nickel	ppm	ASTM D5185m	>4	0	1	0
Titanium	ppm	ASTM D5185m		<1	0	2
Silver	ppm	ASTM D5185m	>3	0	<1	1
Aluminum	ppm	ASTM D5185m	>20	13	11	11
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	5	4	2
Tin	ppm	ASTM D5185m	>15	0	0	0
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	9	100
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		57	62	2
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		912	1011	684
Calcium	ppm	ASTM D5185m		1216	1189	1404
Phosphorus	ppm	ASTM D5185m		951	1077	689
Zinc	ppm	ASTM D5185m		1231	1248	854
Sulfur	ppm	ASTM D5185m		3871		
CONTAMINANTS		method	limit/base		history1	history2
Silicon	ppm		>25	9	9	10
Sodium	ppm	ASTM D5185m	>150	2	1	1
Potassium	ppm	ASTM D5185m	>20	2	1	20
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	<0.1	<0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.9	10	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	17	13
Base Number (BN)	mg KOH/g	ASTM D2896		7.2	7.01	5.6

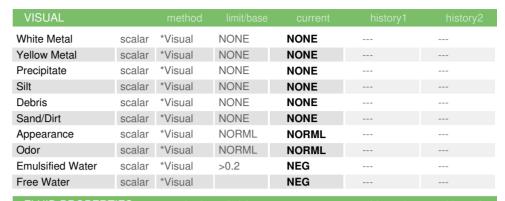


OIL ANALYSIS REPORT

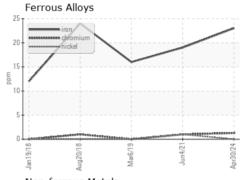


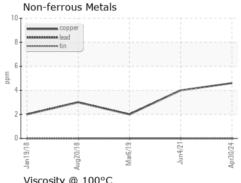


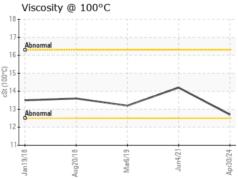


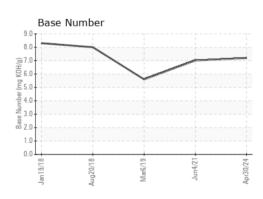


FLUID PROPER	RIIES	method		history1	history2
Visc @ 100°C	cSt	ASTM D445	12.7	14.2	13.2













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06211071

: PE0003396 Unique Number : 11083935

Received **Tested** Diagnosed

: 14 Jun 2024 : 18 Jun 2024

: 18 Jun 2024 - Angela Borella Test Package : CONST (Additional Tests: FT-IR, ICP, KV100, SCREEN, TBN)

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

oilsamples@gmccinc.com

T: 1(866)292-1303

Gary Merlino Construction - Off Road Shop

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)