

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

TOYOTA TOYOTA TUNDRA

Gasoline Engine

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

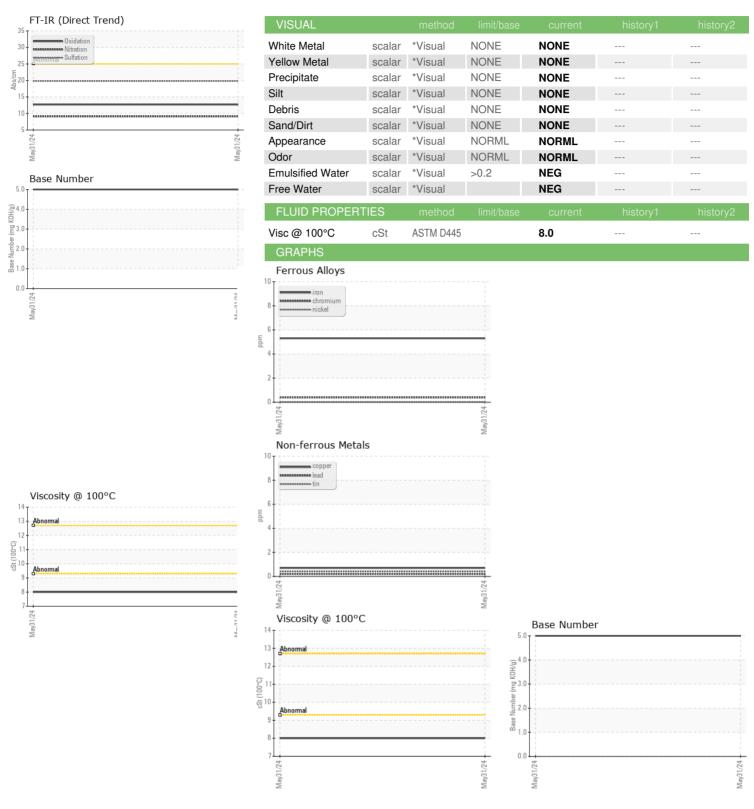
Fluid Condition

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

				May2024		
SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		WC0949449		
Sample Date		Client Info		31 May 2024		
Machine Age	mls	Client Info		190000		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	5		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>40	4		
Lead	ppm	ASTM D5185m	>50	<1		
Copper	ppm	ASTM D5185m	>155	<1		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		39		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		267		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		519		
Calcium	ppm	ASTM D5185m		1234		
Phosphorus	ppm	ASTM D5185m		761		
Zinc	ppm	ASTM D5185m		814		
Sulfur	ppm	ASTM D5185m		2233		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	14		
Sodium	ppm	ASTM D5185m	>400	0		
Potassium	ppm	ASTM D5185m	>20	2		
Fuel	%	ASTM D3524	>4.0	<1.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0		
Nitration	Abs/cm	*ASTM D7624	>20	9.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.7		
Base Number (BN)	mg KOH/g	ASTM D2896		5.0		



OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0949449 Lab Number : 06202215

Unique Number : 11069676

Received : 06 Jun 2024 **Tested** : 11 Jun 2024 Diagnosed

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

: 11 Jun 2024 - Jonathan Hester Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

 st - 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)

CLOVER EXCAVATION

6681 MALTESE LANE BOZEMAN, MT

UM 59718 Contact: ISAAC ARMSTRONG ia.cloverexcavation@gmail.com T: (616)307-1341

Contact/Location: ISAAC ARMSTRONG - CLOBOZ