



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
846-4560

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 40 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0011472	RPL0009129	RPL0007054
Sample Date		Client Info		22 Feb 2024	24 Mar 2023	23 Dec 2022
Machine Age	mls	Client Info		0	20140	0
Oil Age	mls	Client Info		9736	0	36970
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	13	23	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	6	4
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	2	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

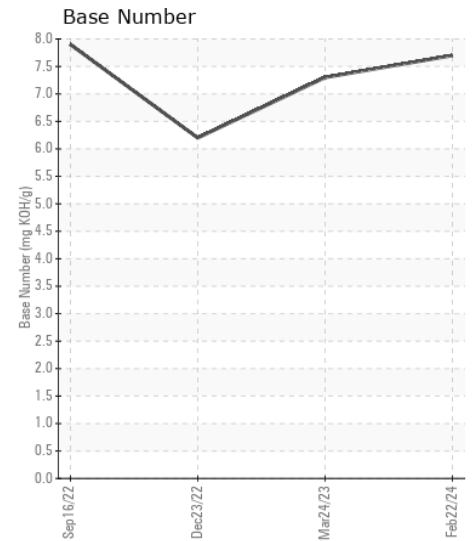
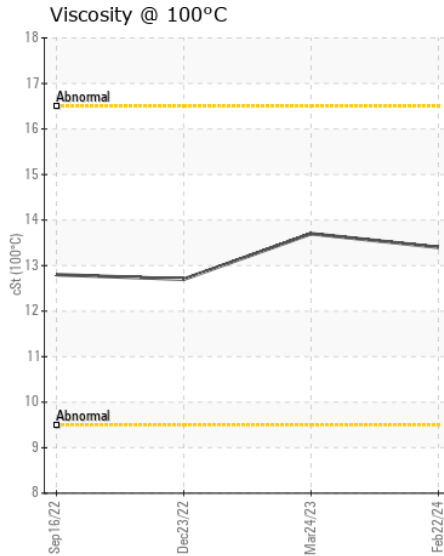
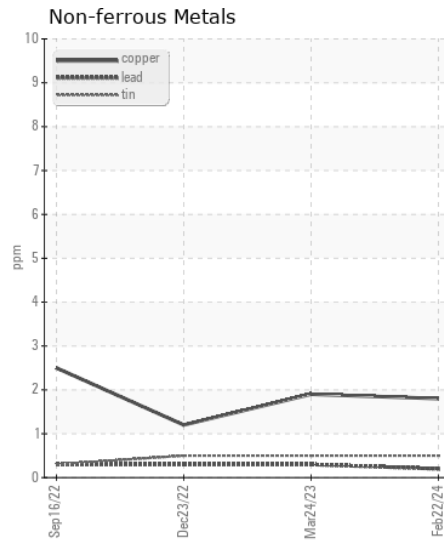
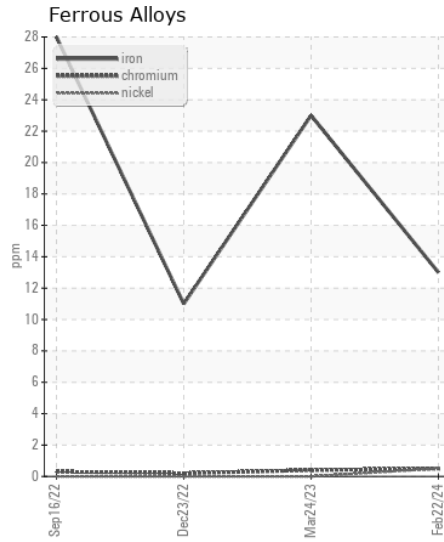
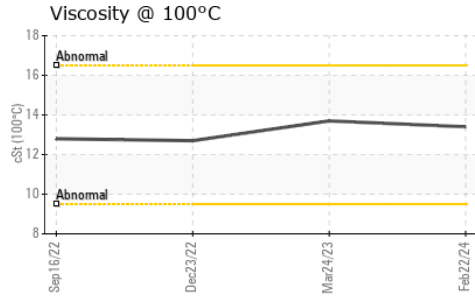
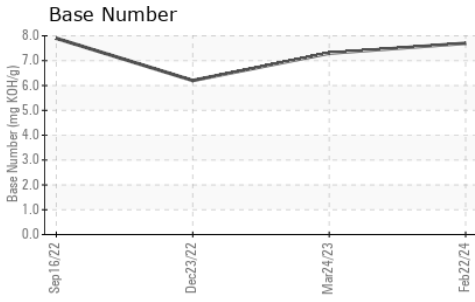
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	9	10	7
Potassium	ppm	ASTM D5185m	>20	8	16	6
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.3	12.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	21.2	24.6
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

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.

Sodium	ppm	ASTM D5185m	>75	3	1	2
Boron	ppm	ASTM D5185m		45	40	44
Barium	ppm	ASTM D5185m		0	2	4
Molybdenum	ppm	ASTM D5185m		80	46	40
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		588	502	464
Calcium	ppm	ASTM D5185m		1496	1706	1512
Phosphorus	ppm	ASTM D5185m		826	773	670
Zinc	ppm	ASTM D5185m		955	972	878
Sulfur	ppm	ASTM D5185m		2779	2457	2459
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	22.3	27.3
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	7.3	6.2
Visc @ 100°C	cSt	ASTM D445		13.4	13.7	12.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0011472
Lab Number : 06105778
Unique Number : 10909275
Test Package : FLEET

Received : 01 Mar 2024
Tested : 02 Mar 2024
Diagnosed : 02 Mar 2024 - Wes Davis

RTL PACLEASE - 7007 - Fontana
 3121 South Riverside
 Bloomington, CA
 US 92316
 Contact: Rudy Trevizo
 TrevizoR@RushEnterprises.Com
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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)