



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
R202-L-01
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. 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.

WEAR

All component wear rates are normal.

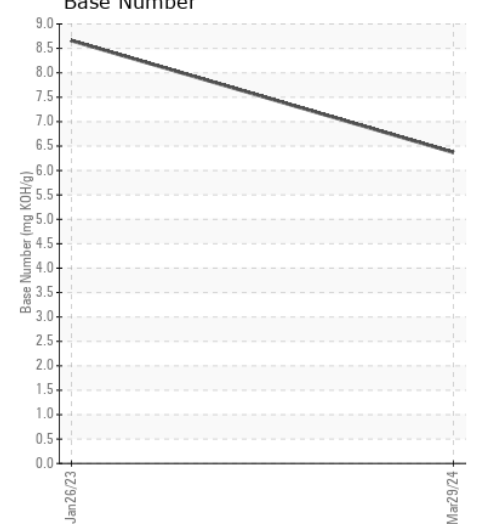
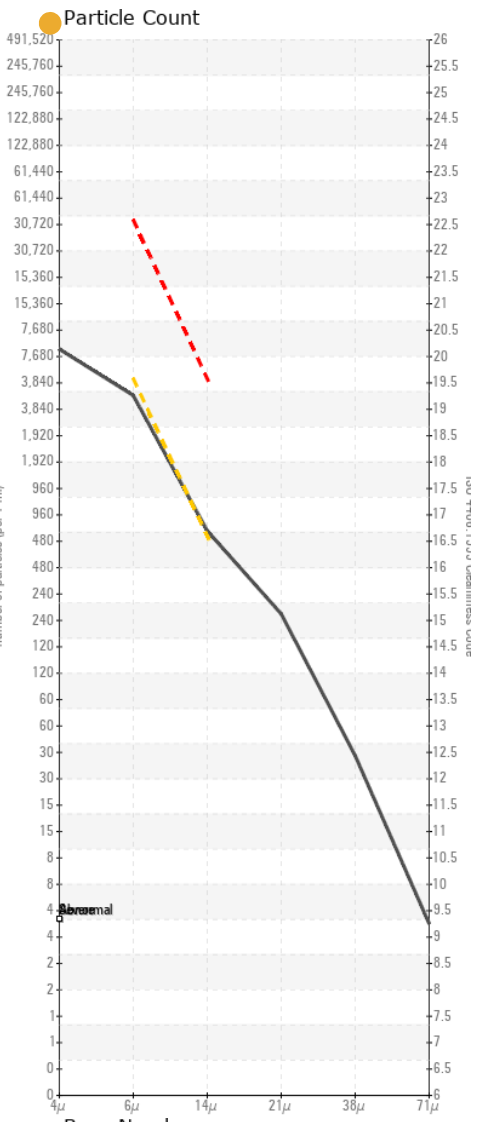
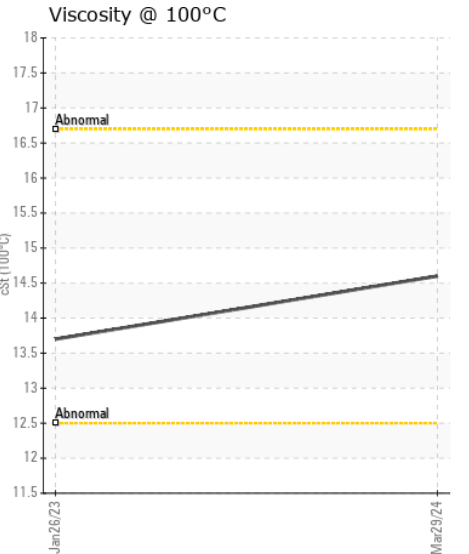
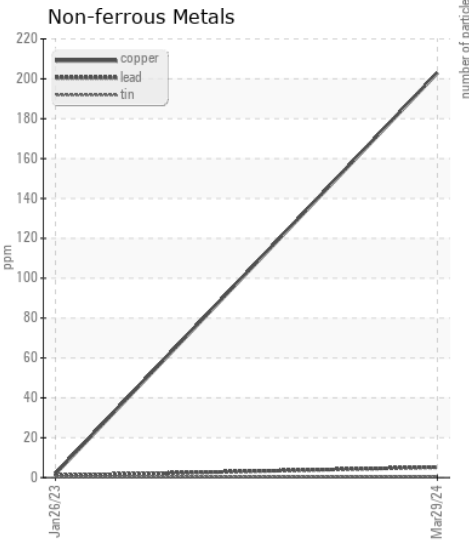
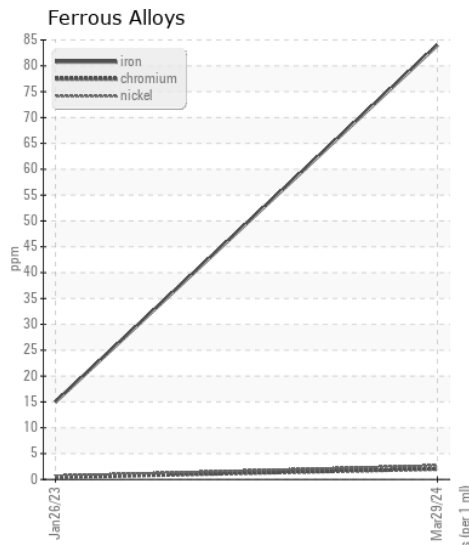
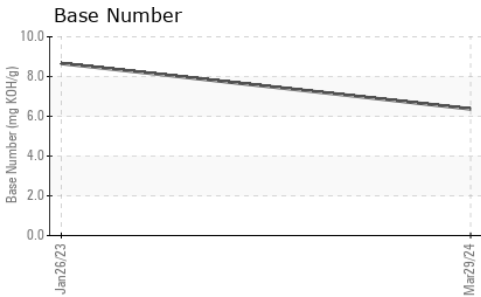
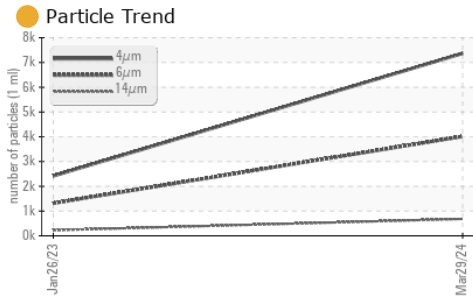
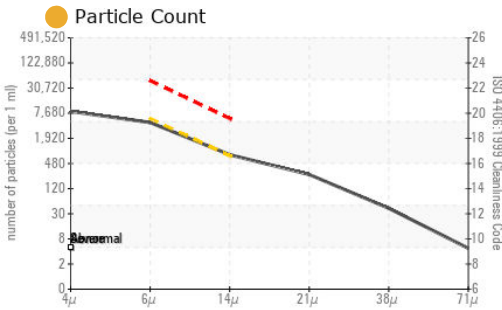
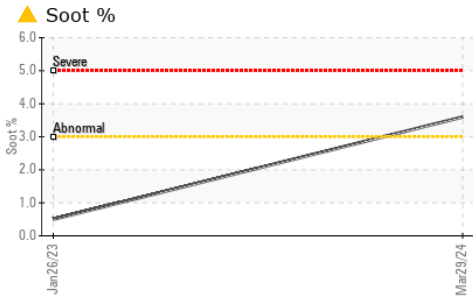
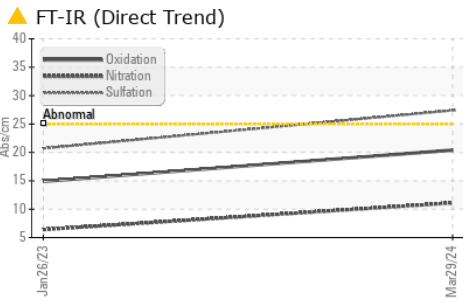
CONTAMINATION

There is a light amount of silt (particulates < 14 microns in size) present in the oil. Light concentration of carbon/soot present in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014222	KLM2340918	---
Sample Date		Client Info		29 Mar 2024	26 Jan 2023	---
Machine Age	hrs	Client Info		45371	44946	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>100	84	15	---
Chromium	ppm	ASTM D5185m	>20	2	<1	---
Nickel	ppm	ASTM D5185m	>4	3	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	<1	---
Lead	ppm	ASTM D5185m	>40	5	1	---
Copper	ppm	ASTM D5185m	>330	203	2	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	6	4	---
Potassium	ppm	ASTM D5185m	>20	4	3	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	3.6	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	11.1	6.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.4	20.7	---
Particles >4µm		ASTM D7647		7369	2418	---
Particles >6µm		ASTM D7647	>5000	4014	1317	---
Particles >14µm		ASTM D7647	>640	683	224	---
Particles >21µm		ASTM D7647	>160	230	76	---
Particles >38µm		ASTM D7647	>40	36	12	---
Particles >71µm		ASTM D7647	>10	4	1	---
Oil Cleanliness		ISO 4406 (c)	>19/16	19/17	18/15	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m		<1	2	---
Boron	ppm	ASTM D5185m		200	327	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		77	67	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		388	308	---
Calcium	ppm	ASTM D5185m		1458	1582	---
Phosphorus	ppm	ASTM D5185m		1034	846	---
Zinc	ppm	ASTM D5185m		1121	1072	---
Sulfur	ppm	ASTM D5185m		3060	3595	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	14.9	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.37	8.66	---
Visc @ 100°C	cSt	ASTM D445		14.6	13.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014222 **Received** : 10 Apr 2024
Lab Number : 06145360 **Tested** : 15 Apr 2024
Unique Number : 10970168 **Diagnosed** : 15 Apr 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: PrtCount)

STRATEGY LATERAL
 PO BOX 80543
 MIDLAND, TX
 US 76065

Contact: KIRK WADE
 KIRK.WADE@STRATEGYLATERAL.COM

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)

T:
 F: