



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
139-462
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

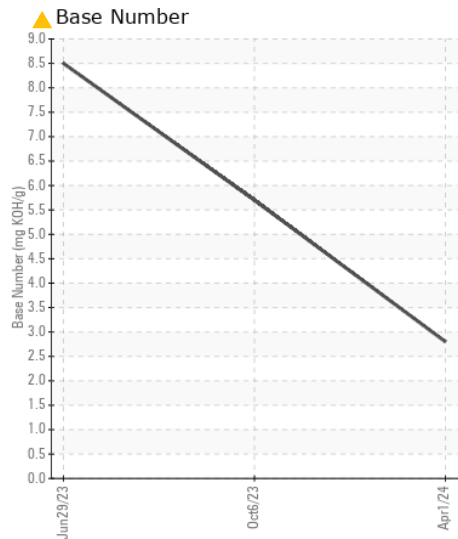
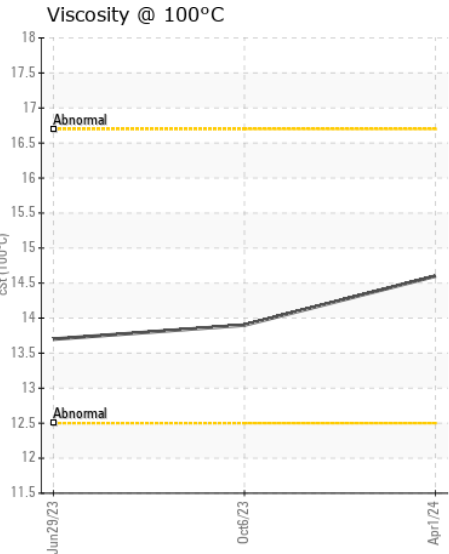
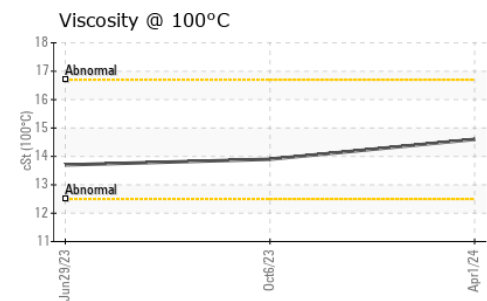
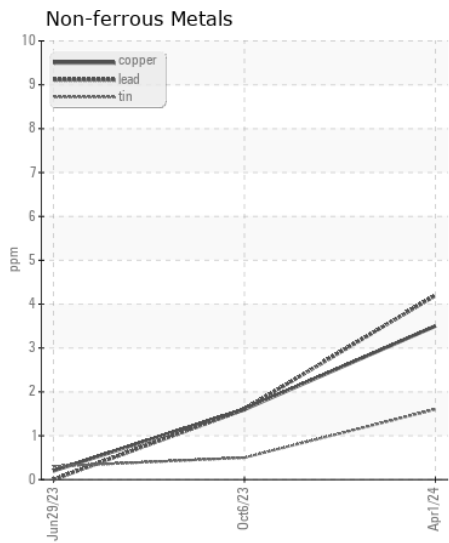
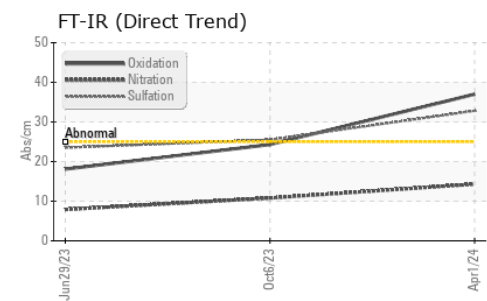
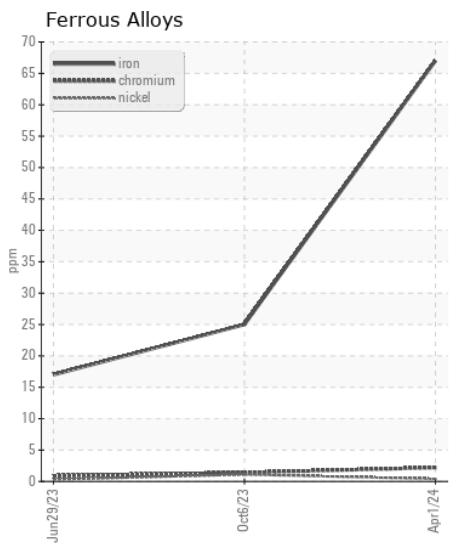
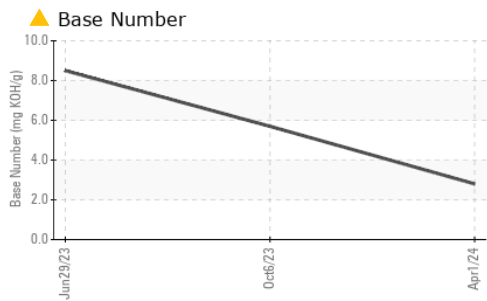
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The BN level is low.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016734	RPL0014881	RPL0007758
Sample Date		Client Info		01 Apr 2024	06 Oct 2023	29 Jun 2023
Machine Age	mls	Client Info		248457	221414	221414
Oil Age	mls	Client Info		248457	221414	221414
Filter Age	mls	Client Info		0	0	221414
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	67	25	17
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	16	13	6
Lead	ppm	ASTM D5185m	>40	4	2	0
Copper	ppm	ASTM D5185m	>330	4	2	<1
Tin	ppm	ASTM D5185m	>15	2	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	13	8	6
Potassium	ppm	ASTM D5185m	>20	32	20	12
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	0.8	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	14.3	10.8	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	32.8	25.5	23.5
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
Sodium	ppm	ASTM D5185m		2	2	<1
Boron	ppm	ASTM D5185m		48	113	300
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		130	137	122
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		641	635	628
Calcium	ppm	ASTM D5185m		1616	1441	1422
Phosphorus	ppm	ASTM D5185m		715	651	656
Zinc	ppm	ASTM D5185m		855	828	789
Sulfur	ppm	ASTM D5185m		2590	2587	2820
Oxidation	Abs/.1mm	*ASTM D7414	>25	37.0	24.3	18.1
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 2.8	5.7	8.50
Visc @ 100°C	cSt	ASTM D445		14.6	13.9	13.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0016734 **Received** : 17 Apr 2024
Lab Number : 06151462 **Tested** : 18 Apr 2024
Unique Number : 10981540 **Diagnosed** : 19 Apr 2024 - Sean Felton
Test Package : FLEET

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Certificate L2367
 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)