



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
139456
 Component
Diesel Engine
 Fluid
{not provided} (--- LTR)

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.

WEAR

All component wear rates are normal.

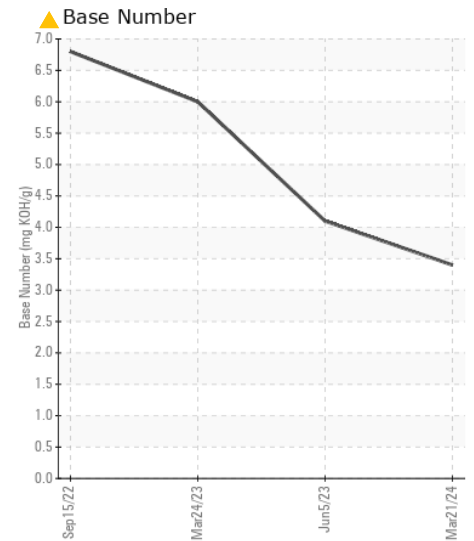
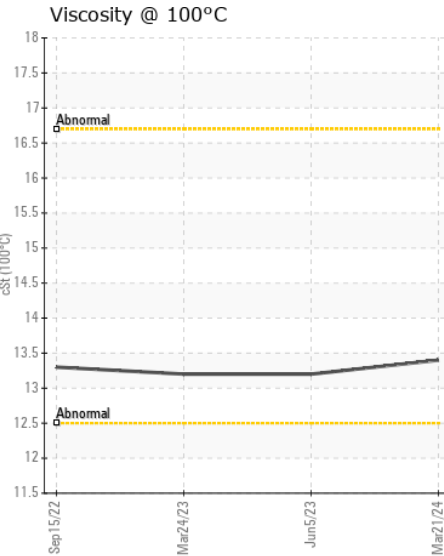
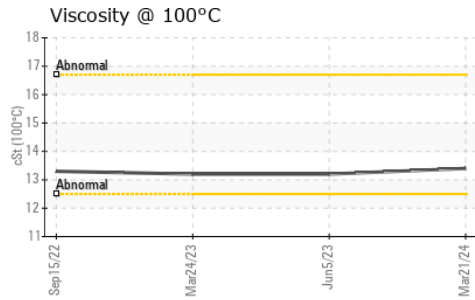
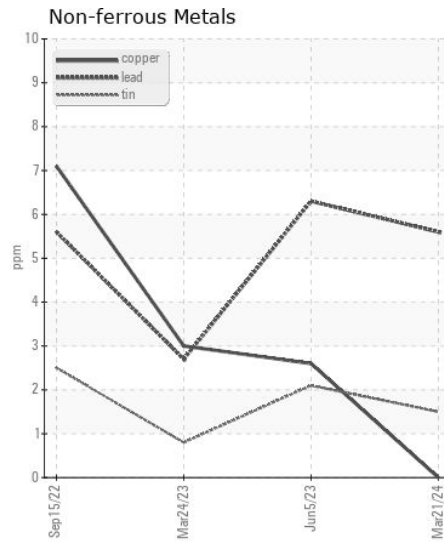
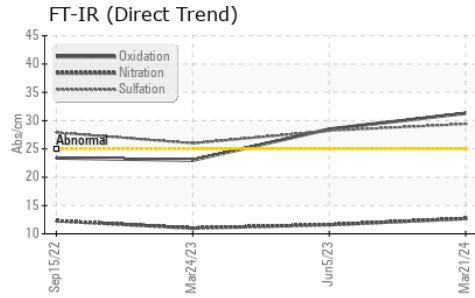
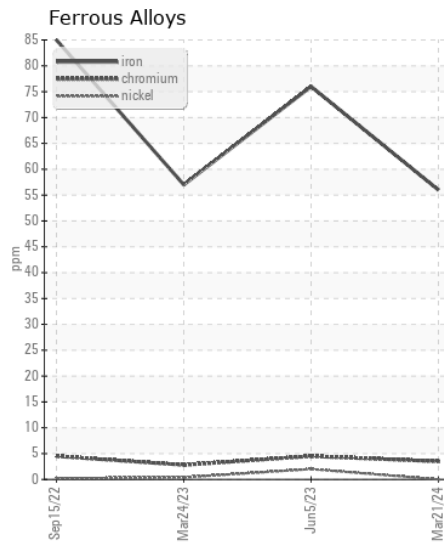
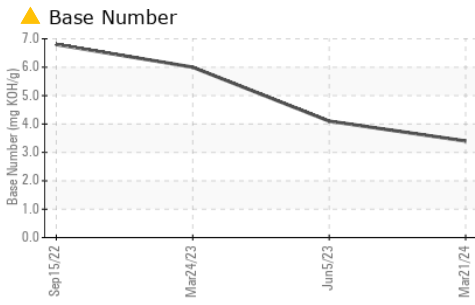
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The BN level is low. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL06151643	RPL05873004	RPL05808707
Sample Date		Client Info		21 Mar 2024	05 Jun 2023	24 Mar 2023
Machine Age	mls	Client Info		150350	110655	101112
Oil Age	mls	Client Info		0	0	37301
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	56	76	57
Chromium	ppm	ASTM D5185m	>20	4	4	3
Nickel	ppm	ASTM D5185m	>4	0	2	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	9	21	15
Lead	ppm	ASTM D5185m	>40	6	6	3
Copper	ppm	ASTM D5185m	>330	0	3	3
Tin	ppm	ASTM D5185m	>15	2	2	<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	21	24	19
Potassium	ppm	ASTM D5185m	>20	10	40	36
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	0.4	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.7	11.6	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.4	28.2	26.0
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		<1	3	3
Boron	ppm	ASTM D5185m		57	48	95
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		128	116	115
Manganese	ppm	ASTM D5185m		1	2	2
Magnesium	ppm	ASTM D5185m		677	681	644
Calcium	ppm	ASTM D5185m		1647	1568	1546
Phosphorus	ppm	ASTM D5185m		694	724	681
Zinc	ppm	ASTM D5185m		855	927	825
Sulfur	ppm	ASTM D5185m		2717	2974	2424
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.3	28.5	23.0
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 3.4	4.1	6.0
Visc @ 100°C	cSt	ASTM D445		13.4	13.2	13.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL06151643
Lab Number : 06151643
Unique Number : 10981721
Test Package : FLEET

Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 22 Apr 2024 - Jonathan Hester

RTL PACLEASE - 7050 -Leasing Tyler
 10791 Hwy 69 North
 Tyler, TX
 US 75706

Contact: Justin Cooper
 CooperJ1@RushEnterprises.Com

T: (903)405-3000

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)

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