



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
146799
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0017055	RPL0017070	RPL0011138
Sample Date		Client Info		14 May 2024	14 Apr 2024	26 Jan 2024
Machine Age	mls	Client Info		356808	353788	342944
Oil Age	mls	Client Info		3020	0	0
Filter Age	mls	Client Info		3020	0	0
Oil Changed		Client Info		Not Changd	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	23	57	60
Chromium	ppm	ASTM D5185m	>20	<1	3	2
Nickel	ppm	ASTM D5185m	>4	<1	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	12	▲ 18
Lead	ppm	ASTM D5185m	>40	<1	3	3
Copper	ppm	ASTM D5185m	>330	1	4	3
Tin	ppm	ASTM D5185m	>15	<1	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

CONTAMINATION

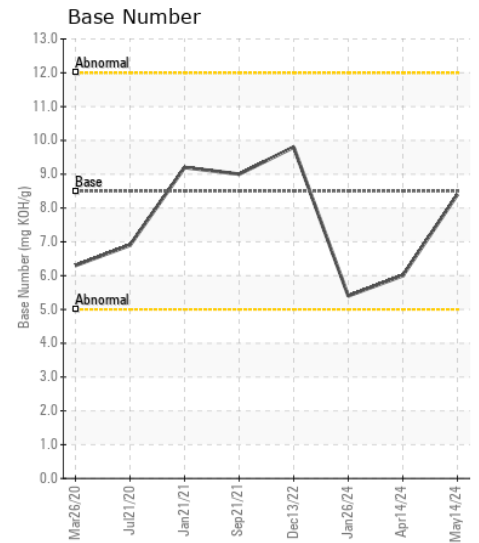
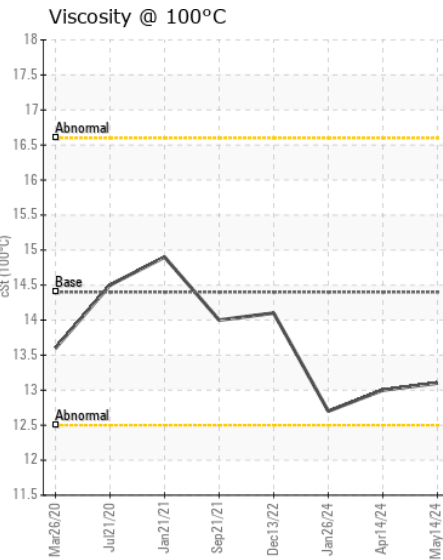
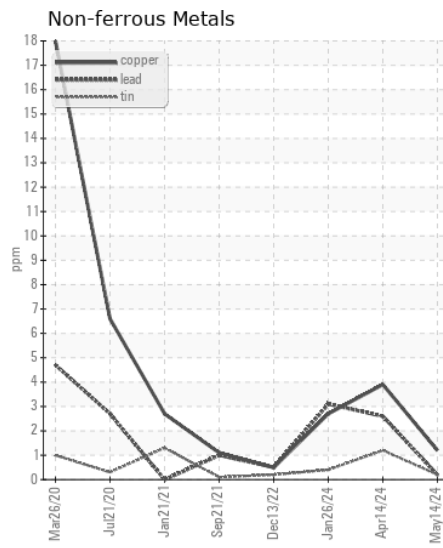
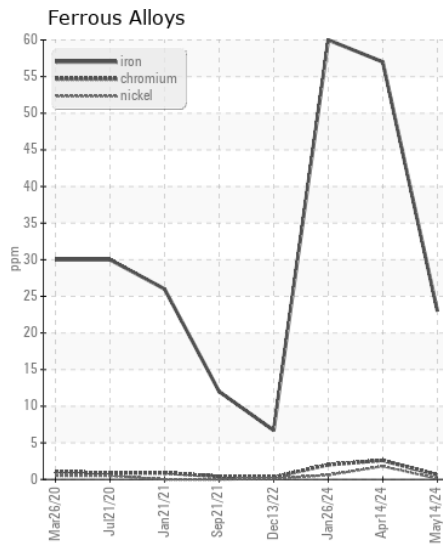
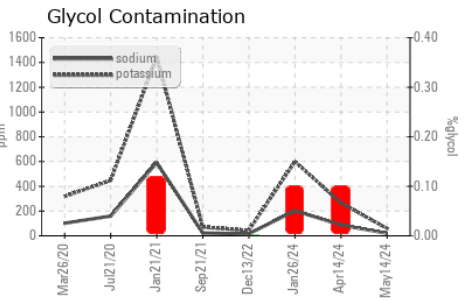
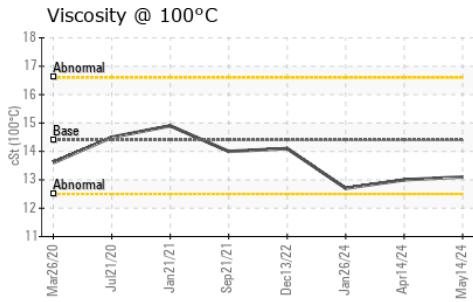
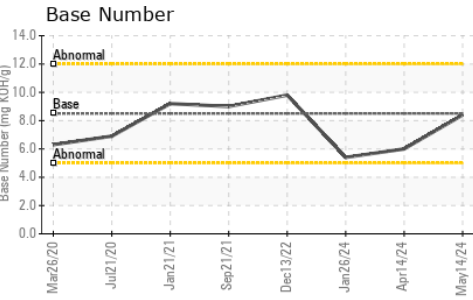
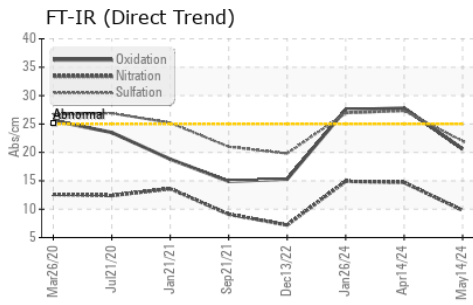
No evidence of coolant present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	13	18	12
Potassium	ppm	ASTM D5185m	>20	60	▲ 265	▲ 600
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	▲ 0.10	▲ 0.10
Soot %	%	*ASTM D7844	>3	0.7	1.3	1.3
Nitration	Abs/cm	*ASTM D7624	>20	9.8	14.7	14.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	27.3	26.9
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	>158	20	▲ 87	▲ 203
Boron	ppm	ASTM D5185m	250	54	51	28
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	79	111	141
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	450	564	513	609
Calcium	ppm	ASTM D5185m	3000	1463	1415	1362
Phosphorus	ppm	ASTM D5185m	1150	765	735	746
Zinc	ppm	ASTM D5185m	1350	890	904	883
Sulfur	ppm	ASTM D5185m	4250	3099	2979	2584
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	27.8	27.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.4	6.0	5.4
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	13.0	12.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0017055
Lab Number : 06187270
Unique Number : 11044022
Test Package : FLEET

Received : 22 May 2024
Tested : 28 May 2024
Diagnosed : 28 May 2024 - Jonathan Hester

RTL PACLEASE - 7008 - Phoenix
 625 South 27th Ave
 Phoenix, AZ
 US 85009

Contact: Maurice Pilotte
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T: (602)566-5712

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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