



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
846-5184
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- GAL)

RECOMMENDATION

Check for low coolant level. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021900	RPL0019375	RPL0017435
Sample Date		Client Info		28 Jun 2024	02 Apr 2024	26 Dec 2023
Machine Age	mls	Client Info		17928	13944	5597
Oil Age	mls	Client Info		17928	5597	0
Filter Age	mls	Client Info		17928	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	44	36	20
Chromium	ppm	ASTM D5185m	>20	2	2	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	20	17	7
Lead	ppm	ASTM D5185m	>40	3	3	1
Copper	ppm	ASTM D5185m	>330	26	28	17
Tin	ppm	ASTM D5185m	>15	3	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

CONTAMINATION

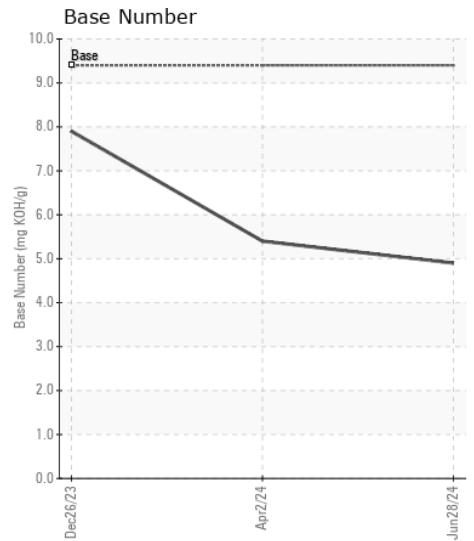
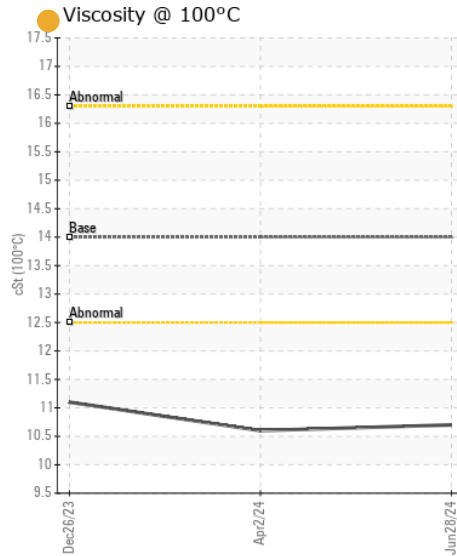
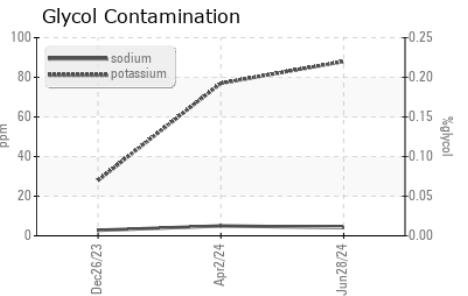
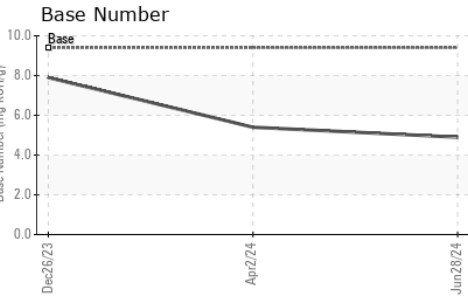
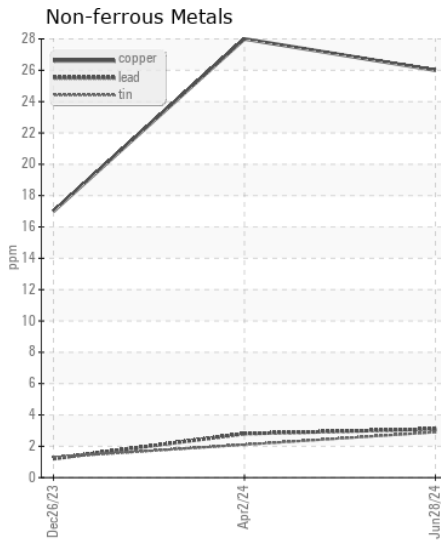
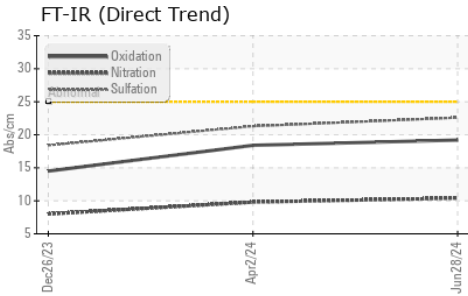
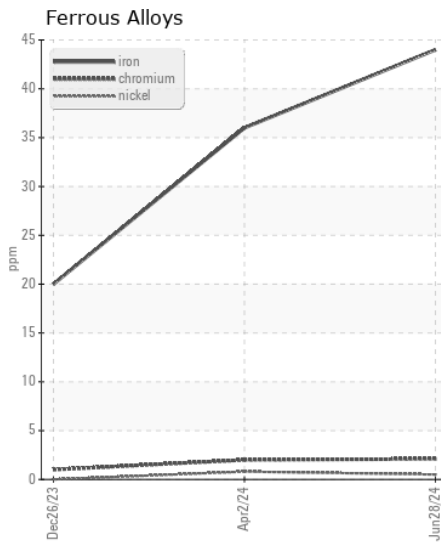
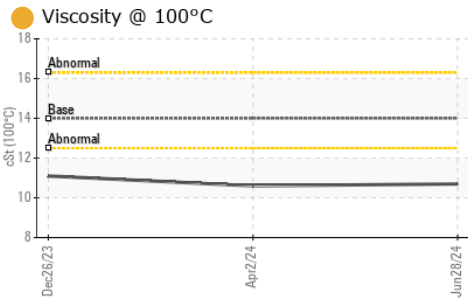
Sodium and/or potassium levels are high. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>25	39	40	38
Potassium	ppm	ASTM D5185m	>20	▲ 88	▲ 77	28
Fuel		WC Method	>5	<1.0	<1.0	▲ 2.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.8	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	21.3	18.4
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		4	5	3
Boron	ppm	ASTM D5185m	0	32	48	75
Barium	ppm	ASTM D5185m	0	0	5	3
Molybdenum	ppm	ASTM D5185m	0	15	14	11
Manganese	ppm	ASTM D5185m		5	5	4
Magnesium	ppm	ASTM D5185m	0	728	707	737
Calcium	ppm	ASTM D5185m		1253	1288	1212
Phosphorus	ppm	ASTM D5185m		705	686	747
Zinc	ppm	ASTM D5185m		886	816	823
Sulfur	ppm	ASTM D5185m		3328	3155	2754
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	18.4	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	4.9	5.4	7.9
Visc @ 100°C	cSt	ASTM D445	14	● 10.7	● 10.6	▲ 11.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021900 **Received** : 12 Jul 2024
Lab Number : 06234468 **Tested** : 16 Jul 2024
Unique Number : 11123302 **Diagnosed** : 16 Jul 2024 - Sean Felton
Test Package : FLEET (Additional Tests: Glycol)

RTL PACLEASE - 7006 - Pico Rivera
 7837 Telegraph Rd
 Pico Rivera, CA
 US 90660
 Contact: GERARDO CARROLA
 carrolag@rushenterprises.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: