



PacLease

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8464947
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0022014	RPL0018121	RPL0016903
Sample Date		Client Info		05 Jul 2024	05 Apr 2024	04 Jan 2024
Machine Age	mls	Client Info		9000	0	48075
Oil Age	mls	Client Info		9000	21253	11349
Filter Age	mls	Client Info		9000	21253	11349
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	37	24	14
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	37	27	13
Lead	ppm	ASTM D5185m	>40	3	2	2
Copper	ppm	ASTM D5185m	>330	10	5	3
Tin	ppm	ASTM D5185m	>15	2	2	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

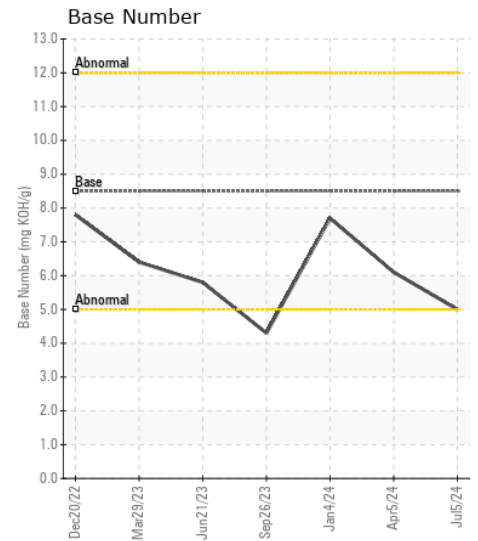
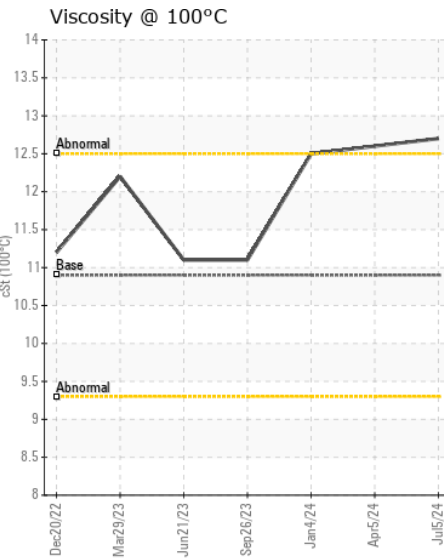
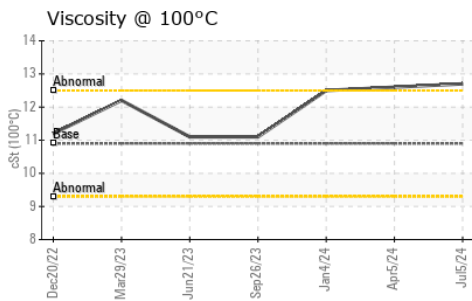
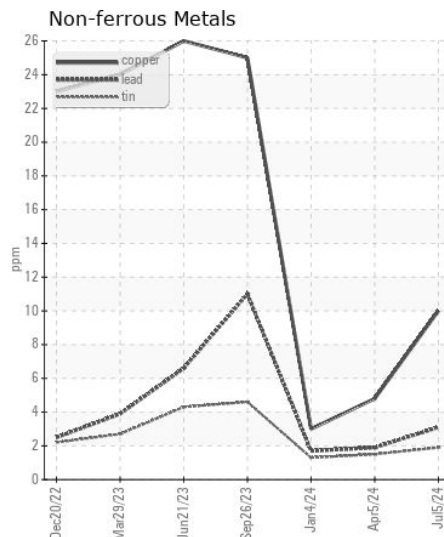
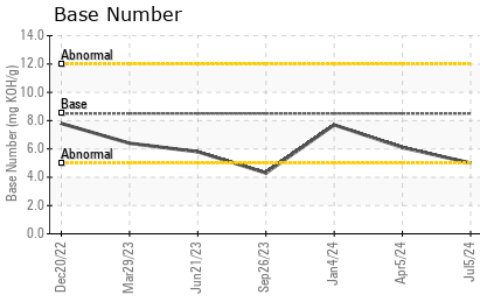
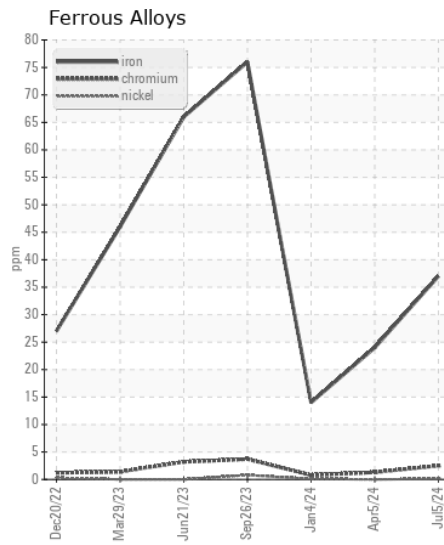
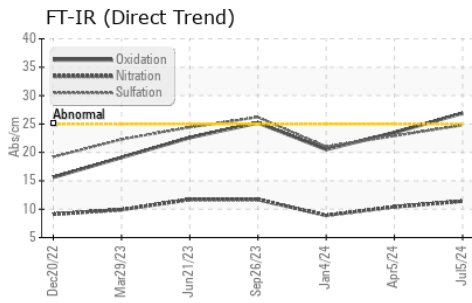
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	13	11	9
Potassium	ppm	ASTM D5185m	>20	99	74	34
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	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	11.4	10.4	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	22.9	21.0
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

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		5	2	2
Boron	ppm	ASTM D5185m	250	32	39	54
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	74	77	68
Manganese	ppm	ASTM D5185m		3	1	<1
Magnesium	ppm	ASTM D5185m	450	597	634	601
Calcium	ppm	ASTM D5185m	3000	1482	1547	1390
Phosphorus	ppm	ASTM D5185m	1150	754	758	776
Zinc	ppm	ASTM D5185m	1350	880	899	889
Sulfur	ppm	ASTM D5185m	4250	2867	2886	2703
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.9	23.5	20.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.0	6.1	7.7
Visc @ 100°C	cSt	ASTM D445	10.9	12.7	12.6	12.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0022014
Lab Number : 06238829
Unique Number : 11127663
Test Package : FLEET

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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)