



PacLease

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
139322
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (44 GAL)

RECOMMENDATION

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		RPL0019730	RPL0016709	RPL0015266
Sample Date		Client Info		20 May 2024	01 Mar 2024	19 Dec 2023
Machine Age	mls	Client Info		215454	215454	193737
Oil Age	mls	Client Info		193737	21717	60000
Filter Age	mls	Client Info		0	21717	60000
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	89	53	16
Chromium	ppm	ASTM D5185m	>5	3	2	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	27	▲ 21	11
Lead	ppm	ASTM D5185m	>150	13	6	2
Copper	ppm	ASTM D5185m	>90	3	2	<1
Tin	ppm	ASTM D5185m	>5	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

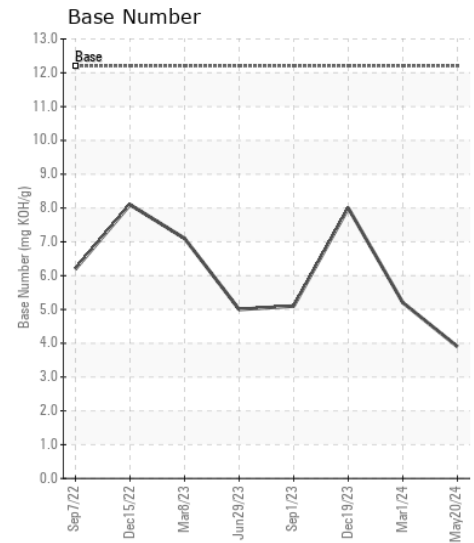
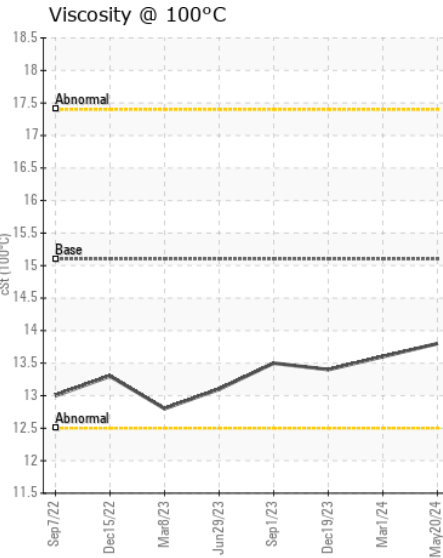
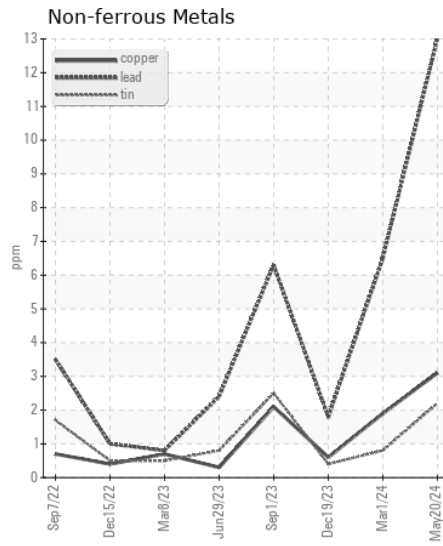
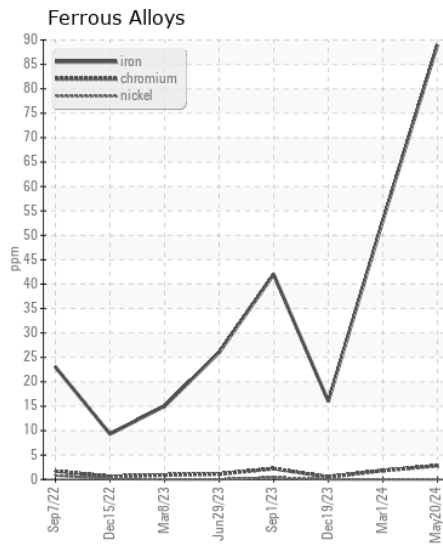
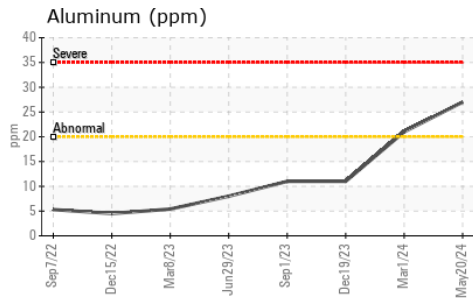
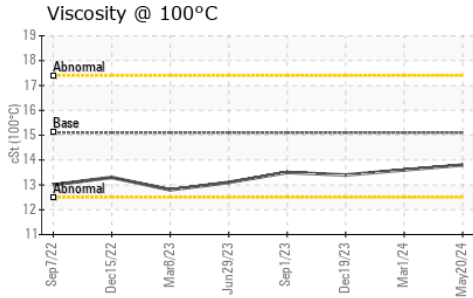
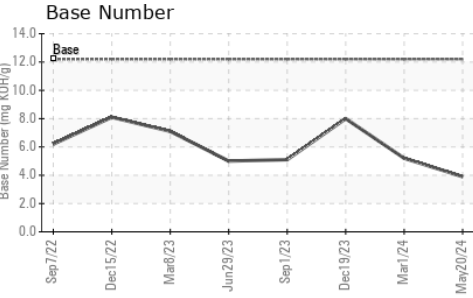
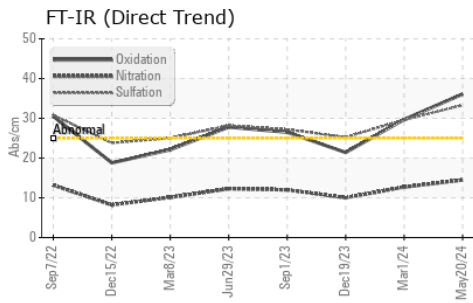
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	14	10	7
Potassium	ppm	ASTM D5185m	>20	50	37	22
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	1	0.7	0.3
Nitration	Abs/cm	*ASTM D7624	>20	14.5	12.7	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.3	29.6	25.2
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		5	5	<1
Boron	ppm	ASTM D5185m		43	64	134
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		128	128	89
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		752	716	615
Calcium	ppm	ASTM D5185m		1566	1621	991
Phosphorus	ppm	ASTM D5185m	1360	763	702	489
Zinc	ppm	ASTM D5185m	1480	914	839	616
Sulfur	ppm	ASTM D5185m		2831	2480	1819
Oxidation	Abs/.1mm	*ASTM D7414	>25	36.1	29.7	21.4
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	3.9	5.2	8.0
Visc @ 100°C	cSt	ASTM D445	15.1	13.8	13.6	13.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019730
Lab Number : 06193765
Unique Number : 11050517
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)