



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
139474
Component
Diesel Engine
Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (11 GAL)

RECOMMENDATION

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016749	RPL0014947	RPL0007747
Sample Date		Client Info		12 Apr 2024	27 Oct 2023	07 Apr 2023
Machine Age		Client Info		287694	233654	179971
Oil Age		Client Info		54040	53683	68834
Filter Age		Client Info		0	53683	68834
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	53	7	70
Chromium	ppm	ASTM D5185m	>20	2	<1	4
Nickel	ppm	ASTM D5185m	>4	0	<1	1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	20	6	57
Lead	ppm	ASTM D5185m	>40	8	<1	13
Copper	ppm	ASTM D5185m	>330	0	<1	6
Tin	ppm	ASTM D5185m	>15	2	<1	3
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

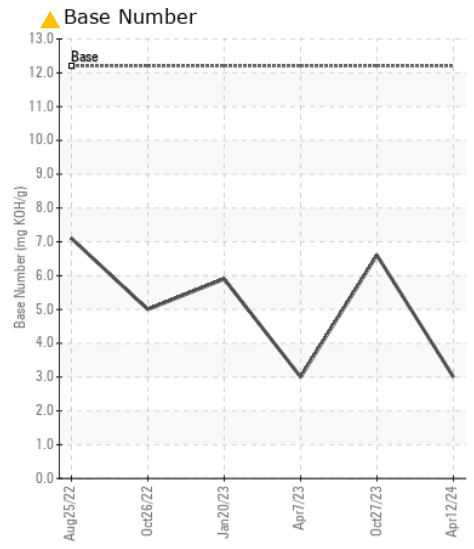
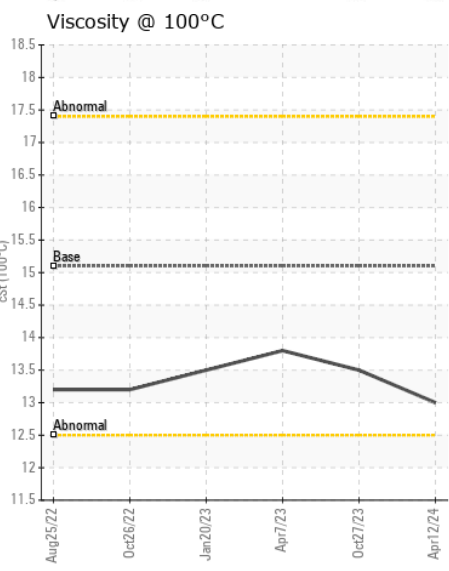
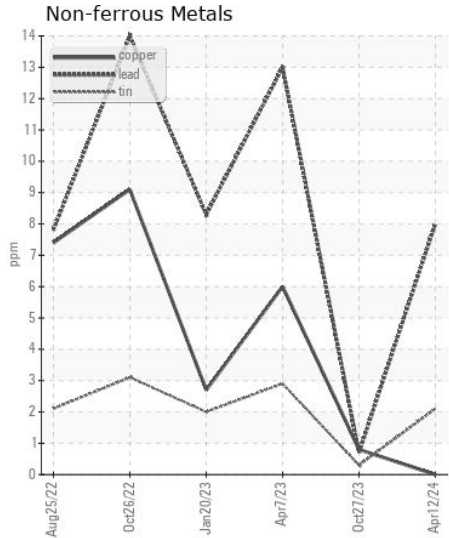
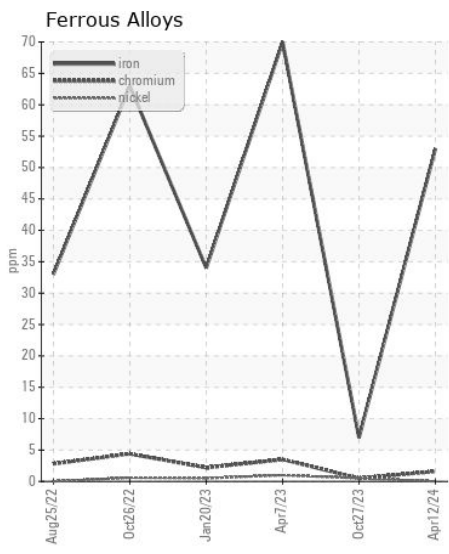
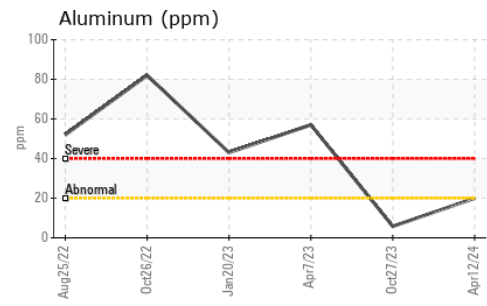
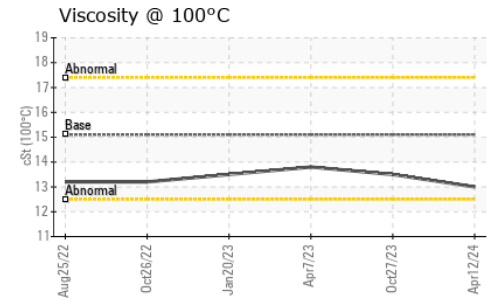
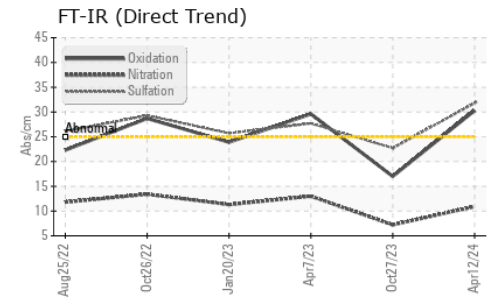
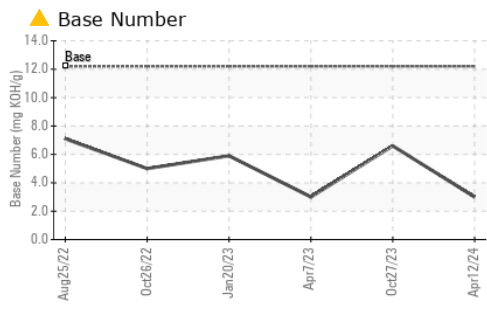
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	9	6	13
Potassium	ppm	ASTM D5185m	>20	49	17	168
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	0.7	0.2	0.8
Nitration	Abs/cm	*ASTM D7624	>20	10.9	7.2	13.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.8	22.7	27.7
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 level is low. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	0	0
Boron	ppm	ASTM D5185m		46	347	42
Barium	ppm	ASTM D5185m		0	5	2
Molybdenum	ppm	ASTM D5185m		97	93	162
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		408	358	662
Calcium	ppm	ASTM D5185m		1413	1341	1573
Phosphorus	ppm	ASTM D5185m	1360	977	1015	687
Zinc	ppm	ASTM D5185m	1480	1235	1170	891
Sulfur	ppm	ASTM D5185m		2945	3180	2456
Oxidation	Abs/.1mm	*ASTM D7414	>25	30.3	17.0	29.6
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	▲ 3.0	6.6	▲ 3.0
Visc @ 100°C	cSt	ASTM D445	15.1	13.0	13.5	13.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0016749
Lab Number : 06151667
Unique Number : 10981745
Test Package : FLEET
Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 22 Apr 2024 - Jonathan Hester

RTL PACLEASE - 7005 - Arlington
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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)