FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(TMV3662)
Machine Id
934066
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

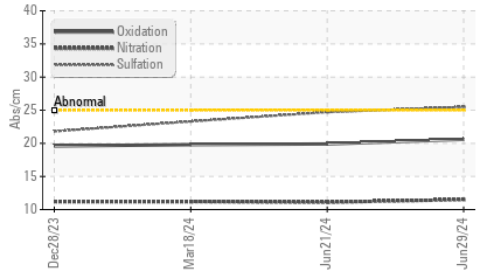
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

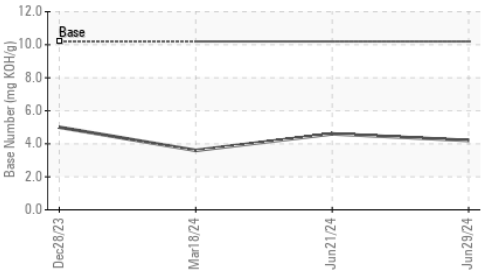
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0125181	GFL0125245	GFL0114401
Sample Date		Client Info		29 Jun 2024	21 Jun 2024	18 Mar 2024
Machine Age	hrs	Client Info		2093	2034	15655
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	21	23	22
Chromium	ppm	ASTM D5185m	>4	2	3	2
Nickel	ppm	ASTM D5185m	>2	0	1	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	31	38	31
Lead	ppm	ASTM D5185m	>30	<1	1	2
Copper	ppm	ASTM D5185m	>35	2	4	6
Tin	ppm	ASTM D5185m	>4	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	6	8	8
Potassium	ppm	ASTM D5185m	>20	108	129	112
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.5	11.1	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	24.7	23.3
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		9	8	6
Boron	ppm	ASTM D5185m	50	6	8	11
Barium	ppm	ASTM D5185m	5	0	<1	2
Molybdenum	ppm	ASTM D5185m	50	59	63	66
Manganese	ppm	ASTM D5185m	0	1	1	3
Magnesium	ppm	ASTM D5185m	560	648	669	632
Calcium	ppm	ASTM D5185m	1510	1930	1869	1858
Phosphorus	ppm	ASTM D5185m	780	835	915	791
Zinc	ppm	ASTM D5185m	870	1099	1127	1071
Sulfur	ppm	ASTM D5185m	2040	3080	2752	2816
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	19.9	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.2	4.6	3.6
Visc @ 100°C	cSt	ASTM D445	15.1	14.9	14.7	14.6

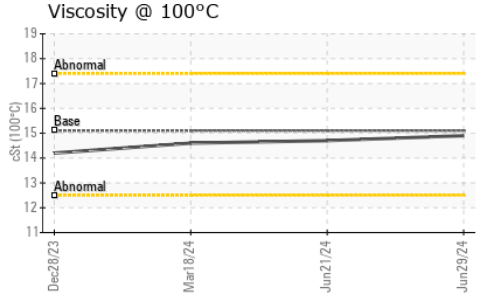
FT-IR (Direct Trend)



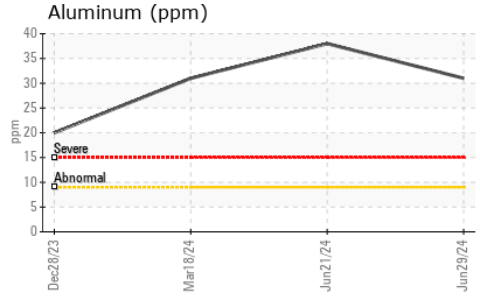
Base Number



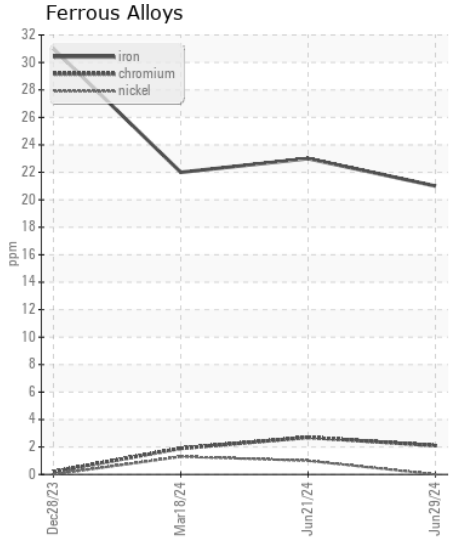
Viscosity @ 100°C



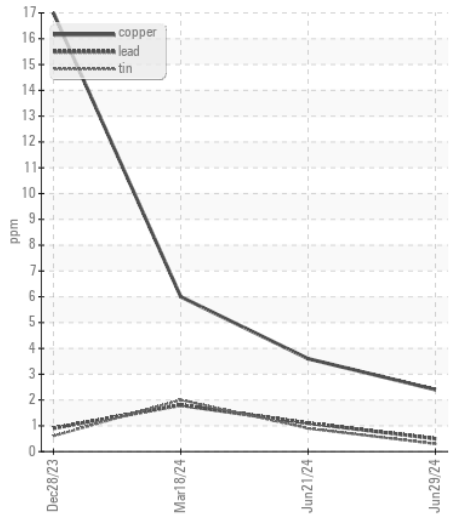
Aluminum (ppm)



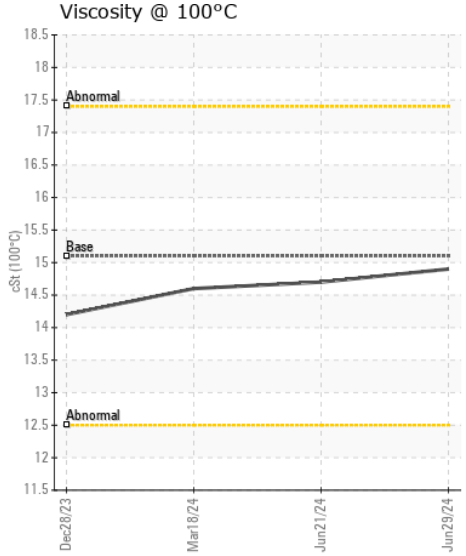
Ferrous Alloys



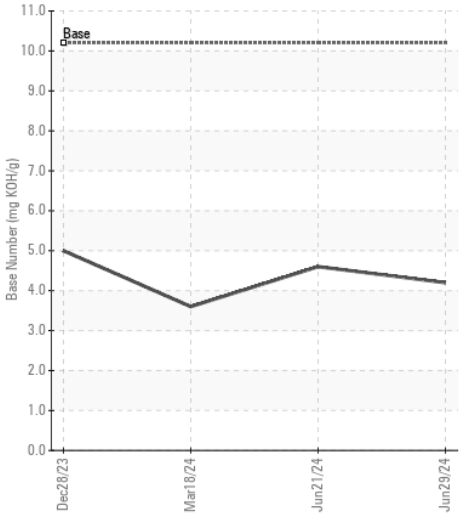
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0125181
Lab Number : 06229595
Unique Number : 11113088
Test Package : FLEET

Received : 05 Jul 2024
Tested : 09 Jul 2024
Diagnosed : 09 Jul 2024 - Wes Davis

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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