MOB I LUBE 360™ OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
931004
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

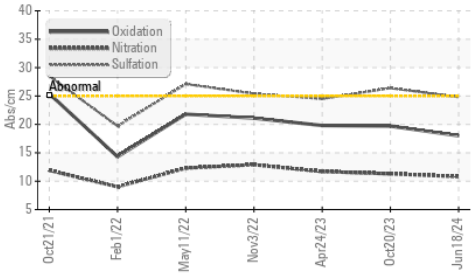
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

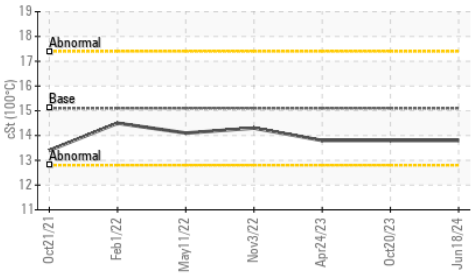
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0117110**	GFL0097772	GFL0081582
Sample Date		Client Info		**18 Jun 2024**	20 Oct 2023	24 Apr 2023
Machine Age	hrs	Client Info		**6275**	5093	4133
Oil Age	hrs	Client Info		**1200**	1200	1200
Filter Age	hrs	Client Info		**1200**	1200	1200
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>50	**19**	23	17
Chromium	ppm	ASTM D5185(m)	>5	**1**	1	<1
Nickel	ppm	ASTM D5185(m)	>4	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	**<1**	0	<1
Silver	ppm	ASTM D5185(m)	>3	**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	**5**	6	4
Lead	ppm	ASTM D5185(m)	>40	**8**	9	9
Copper	ppm	ASTM D5185(m)	>150	**2**	2	2
Tin	ppm	ASTM D5185(m)	>4	**<1**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Silicon	ppm	ASTM D5185(m)	>25	**4**	4	4
Potassium	ppm	ASTM D5185(m)	>20	**8**	8	5
Water		WC Method	>0.1	**NEG**	NEG	NEG
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**10.8**	11.3	11.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	**24.8**	26.4	24.5
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**9**	10	10
Boron	ppm	ASTM D5185(m)	50	**12**	1	6
Barium	ppm	ASTM D5185(m)	5	**<1**	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	**86**	68	55
Manganese	ppm	ASTM D5185(m)	0	**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	**512**	1032	605
Calcium	ppm	ASTM D5185(m)	1510	**1792**	1269	1715
Phosphorus	ppm	ASTM D5185(m)	780	**781**	945	763
Zinc	ppm	ASTM D5185(m)	870	**973**	1294	965
Sulfur	ppm	ASTM D5185(m)	2040	**2111**	2201	2058
Oxidation	Abs/.1mm	ASTM D7414*	>25	**18.0**	19.7	19.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	**13.8**	13.8	13.8

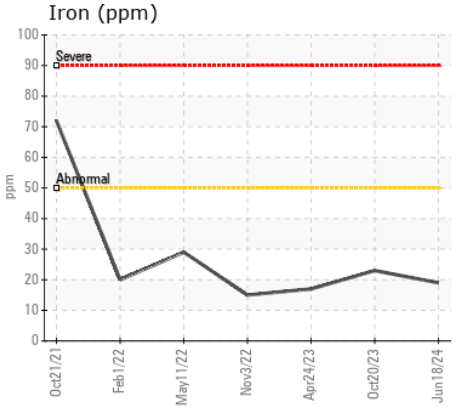
FT-IR (Direct Trend)



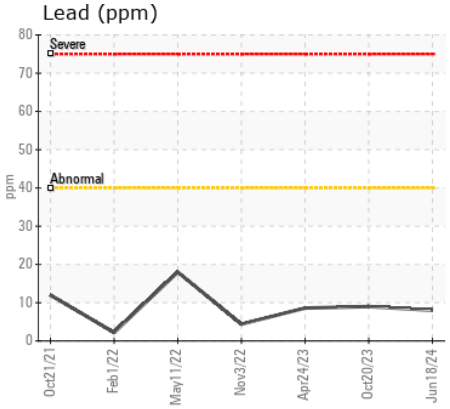
Viscosity @ 100°C



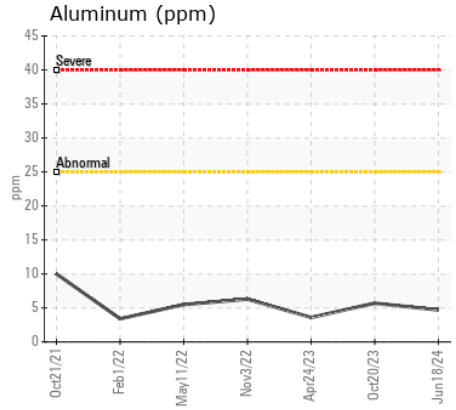
Iron (ppm)



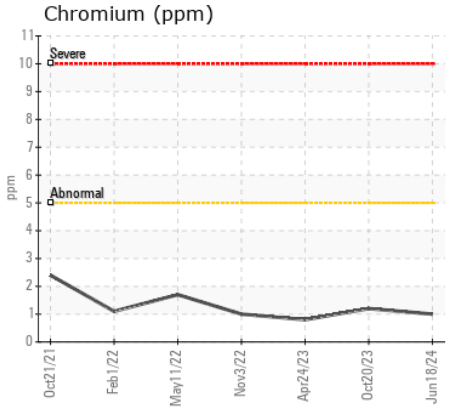
Lead (ppm)



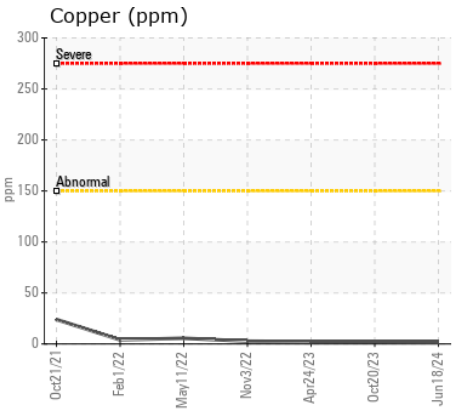
Aluminum (ppm)



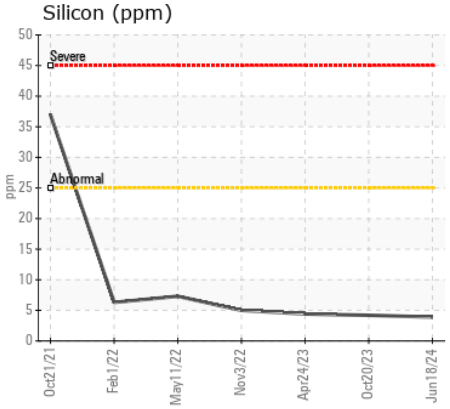
Chromium (ppm)



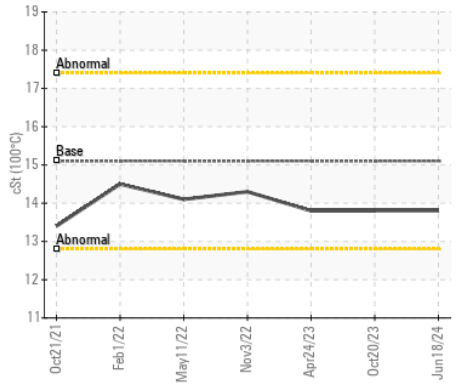
Copper (ppm)



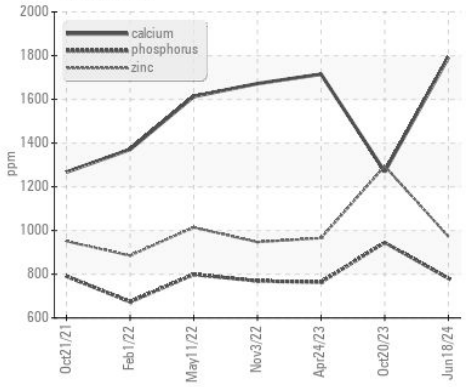
Silicon (ppm)



Viscosity @ 100°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0117110
Lab Number : 02643995
Unique Number : 5801534
Test Package : MOB 1 (Additional Tests: Visual)

Received : 25 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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