MOBIL LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
412054
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

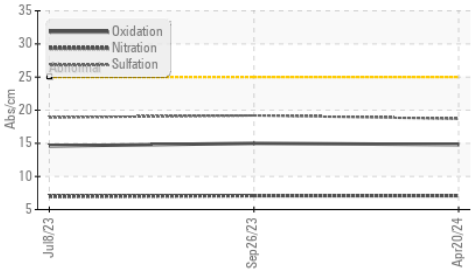
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

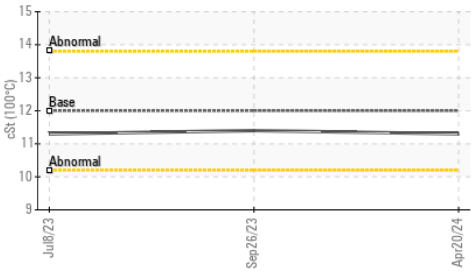
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0111771**	GFL0039064	GFL0081962
Sample Date		Client Info		**20 Apr 2024**	26 Sep 2023	08 Jul 2023
Machine Age	hrs	Client Info		**4417**	3435	2942
Oil Age	hrs	Client Info		**600**	480	450
Filter Age	hrs	Client Info		**600**	480	450
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>80	**10**	11	10
Chromium	ppm	ASTM D5185(m)	>5	**1**	2	2
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>3	**0**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	**7**	12	10
Lead	ppm	ASTM D5185(m)	>30	**0**	<1	<1
Copper	ppm	ASTM D5185(m)	>150	**7**	11	18
Tin	ppm	ASTM D5185(m)	>5	**0**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>20	**2**	3	3
Potassium	ppm	ASTM D5185(m)	>20	**9**	20	15
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	**0.2**	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	**7.1**	7.1	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**18.7**	19.2	18.9
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**2**	2	2
Boron	ppm	ASTM D5185(m)	2	**4**	<1	1
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	50	**61**	61	62
Manganese	ppm	ASTM D5185(m)	0	**<1**	0	0
Magnesium	ppm	ASTM D5185(m)	950	**978**	975	994
Calcium	ppm	ASTM D5185(m)	1050	**1063**	1056	1068
Phosphorus	ppm	ASTM D5185(m)	995	**973**	985	993
Zinc	ppm	ASTM D5185(m)	1180	**1161**	1188	1205
Sulfur	ppm	ASTM D5185(m)	2600	**2371**	2379	2385
Oxidation	Abs/.1mm	ASTM D7414*	>25	**14.8**	15.0	14.6
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	**11.3**	11.4	11.3

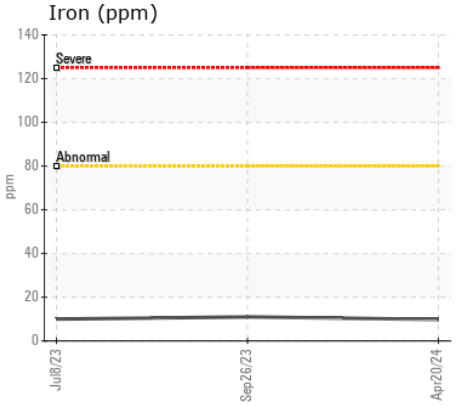
FT-IR (Direct Trend)



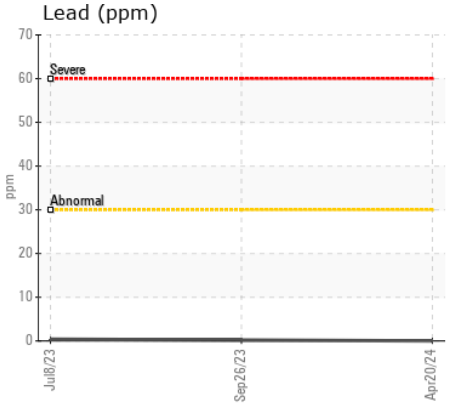
Viscosity @ 100°C



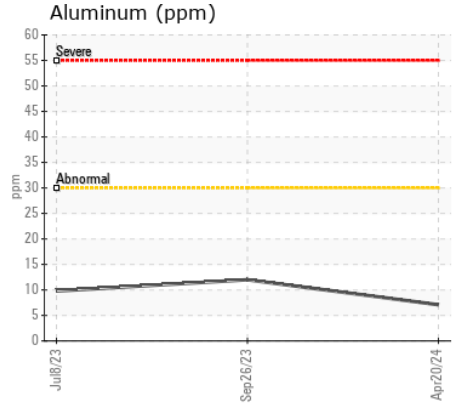
Iron (ppm)



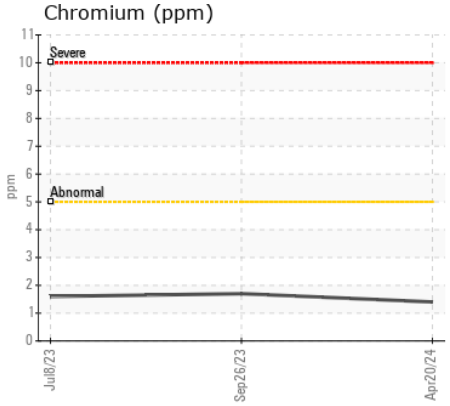
Lead (ppm)



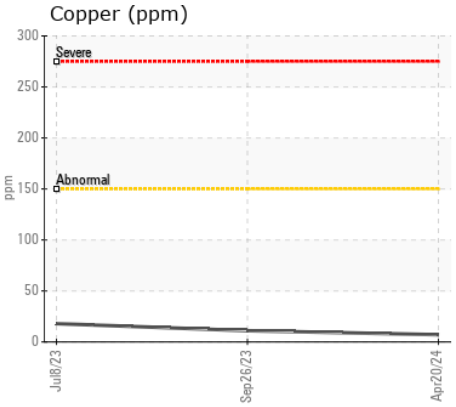
Aluminum (ppm)



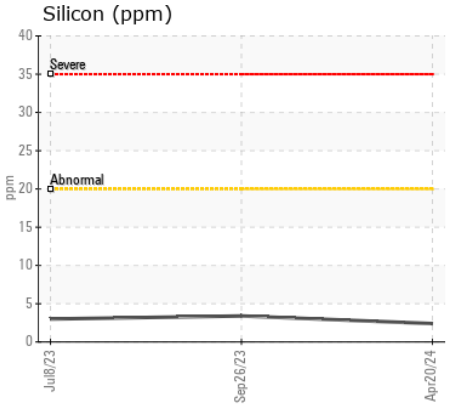
Chromium (ppm)



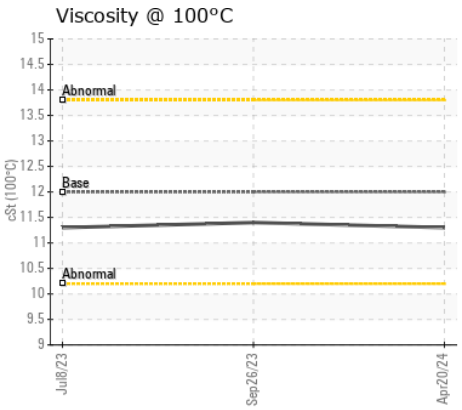
Copper (ppm)



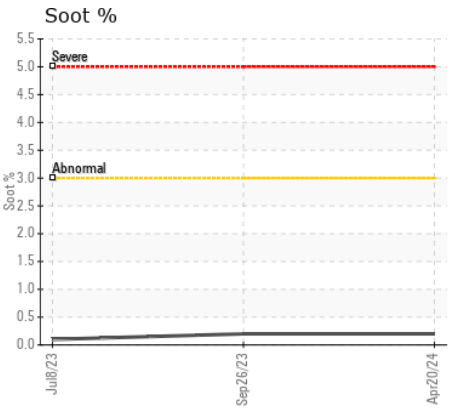
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0111771
Lab Number : 02632729
Unique Number : 5773882
Test Package : MOB 1

Received : 02 May 2024
Tested : 02 May 2024
Diagnosed : 02 May 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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