MOB WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
52916
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 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.

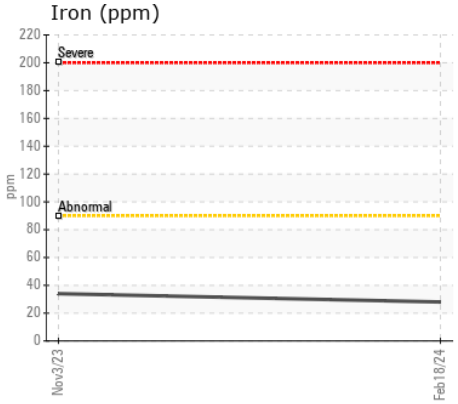
FLUID CONDITION

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

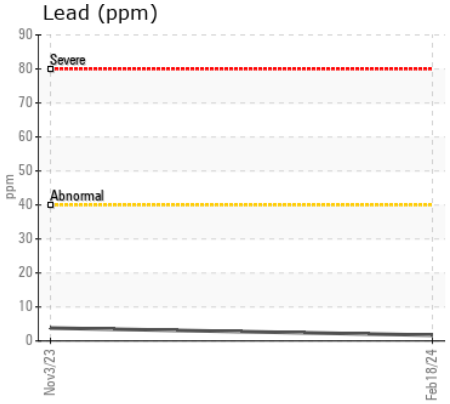
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0904901**	WC0744887	---
Sample Date		Client Info		**18 Feb 2024**	03 Nov 2023	---
Machine Age	hrs	Client Info		**161868**	108556	---
Oil Age	hrs	Client Info		**0**	40000	---
Filter Age	hrs	Client Info		**0**	40000	---
Oil Changed		Client Info		**Changed**	Changed	---
Filter Changed		Client Info		**Changed**	Changed	---
Sample Status				**NORMAL**	NORMAL	---
Iron	ppm	ASTM D5185(m)	>90	**28**	34	---
Chromium	ppm	ASTM D5185(m)	>20	**2**	2	---
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	---
Silver	ppm	ASTM D5185(m)	>2	**<1**	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	**12**	13	---
Lead	ppm	ASTM D5185(m)	>40	**2**	4	---
Copper	ppm	ASTM D5185(m)	>330	**3**	5	---
Tin	ppm	ASTM D5185(m)	>15	**1**	1	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Silicon	ppm	ASTM D5185(m)	>25	**6**	12	---
Potassium	ppm	ASTM D5185(m)	>20	**27**	40	---
Fuel		WC Method	>3.0	**<1.0**	<1.0	---
Water		WC Method	>0.2	**NEG**	NEG	---
Glycol		WC Method		**NEG**	NEG	---
Soot %	%	ASTM D7844*	>6	**0.4**	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	**10.0**	10.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.7**	24.9	---
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	---
Sodium	ppm	ASTM D5185(m)		**2**	4	---
Boron	ppm	ASTM D5185(m)	1	**3**	25	---
Barium	ppm	ASTM D5185(m)	1	**0**	<1	---
Molybdenum	ppm	ASTM D5185(m)	1	**57**	12	---
Manganese	ppm	ASTM D5185(m)	1	**<1**	<1	---
Magnesium	ppm	ASTM D5185(m)	10	**976**	723	---
Calcium	ppm	ASTM D5185(m)	2942	**1104**	1425	---
Phosphorus	ppm	ASTM D5185(m)	1102	**1016**	717	---
Zinc	ppm	ASTM D5185(m)	1351	**1175**	824	---
Sulfur	ppm	ASTM D5185(m)	3903	**2584**	2412	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	**17.0**	20.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	**11.3**	11.3	---

Viscosity @ 100°C

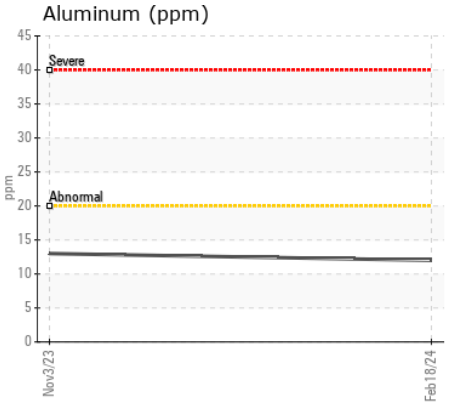
Iron (ppm)



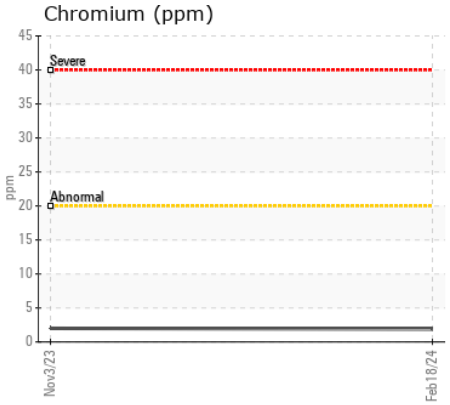
Lead (ppm)



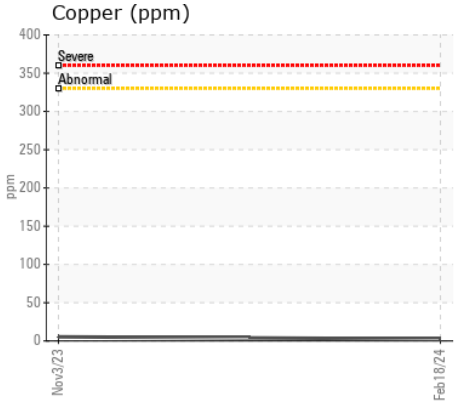
Aluminum (ppm)



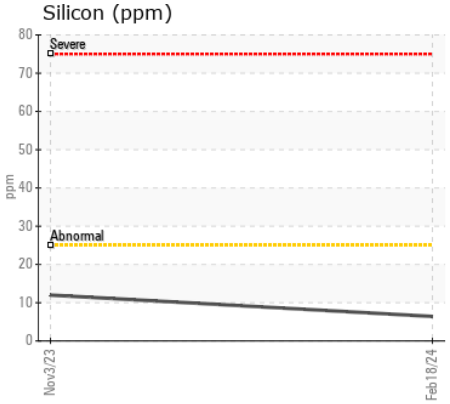
Chromium (ppm)



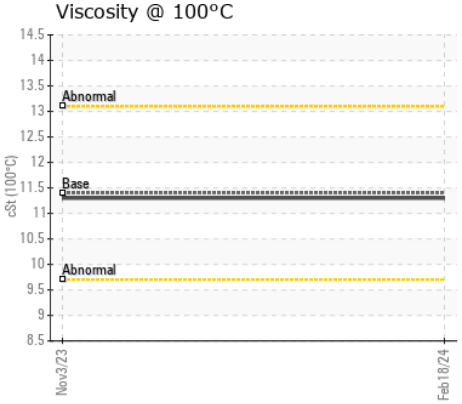
Copper (ppm)



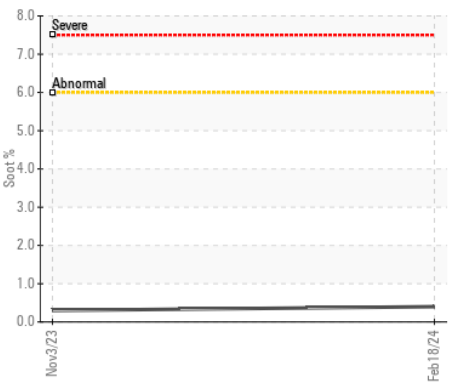
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904901
Lab Number : 02616891
Unique Number : 5734001
Test Package : MOB 1

Received : 21 Feb 2024
Tested : 21 Feb 2024
Diagnosed : 21 Feb 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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