MOB

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
52976
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

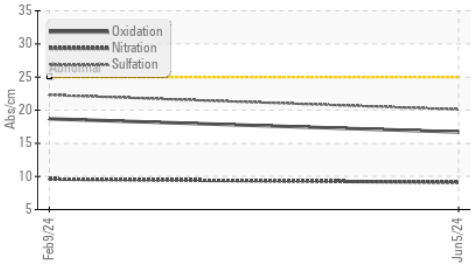
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

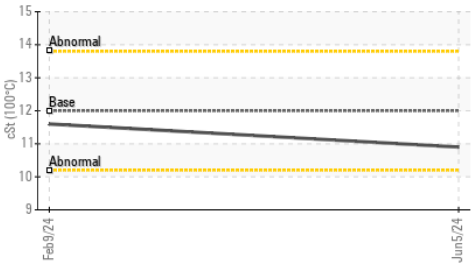
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0915468**	WC0904892	---
Sample Date		Client Info		**05 Jun 2024**	09 Feb 2024	---
Machine Age	mls	Client Info		**61397**	0	---
Oil Age	mls	Client Info		**26925**	34077	---
Filter Age	mls	Client Info		**26925**	34077	---
Oil Changed		Client Info		**Changed**	Changed	---
Filter Changed		Client Info		**Changed**	Changed	---
Sample Status				**NORMAL**	ABNORMAL	---
Iron	ppm	ASTM D5185(m)	>90	**32**	56	---
Chromium	ppm	ASTM D5185(m)	>20	**1**	2	---
Nickel	ppm	ASTM D5185(m)	>2	**0**	<1	---
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	---
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	**19**	▲ 35	---
Lead	ppm	ASTM D5185(m)	>40	**2**	5	---
Copper	ppm	ASTM D5185(m)	>330	**8**	22	---
Tin	ppm	ASTM D5185(m)	>15	**2**	4	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Silicon	ppm	ASTM D5185(m)	>25	**11**	▲ 39	---
Potassium	ppm	ASTM D5185(m)	>20	**44**	101	---
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	**0.3**	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	**9.1**	9.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.1**	22.3	---
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	---
Sodium	ppm	ASTM D5185(m)		**2**	5	---
Boron	ppm	ASTM D5185(m)	2	**9**	48	---
Barium	ppm	ASTM D5185(m)	0	**<1**	5	---
Molybdenum	ppm	ASTM D5185(m)	50	**62**	64	---
Manganese	ppm	ASTM D5185(m)	0	**1**	4	---
Magnesium	ppm	ASTM D5185(m)	950	**910**	446	---
Calcium	ppm	ASTM D5185(m)	1050	**1191**	1759	---
Phosphorus	ppm	ASTM D5185(m)	995	**998**	976	---
Zinc	ppm	ASTM D5185(m)	1180	**1219**	1171	---
Sulfur	ppm	ASTM D5185(m)	2600	**2442**	2566	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	**16.7**	18.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	**10.9**	11.6	---

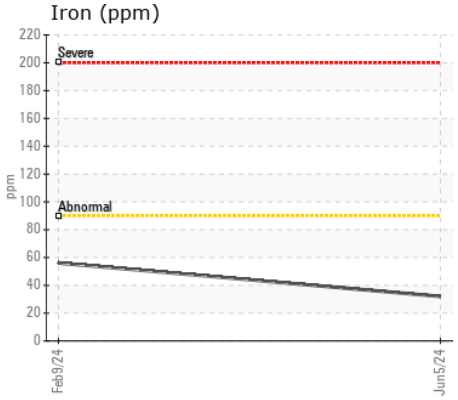
FT-IR (Direct Trend)



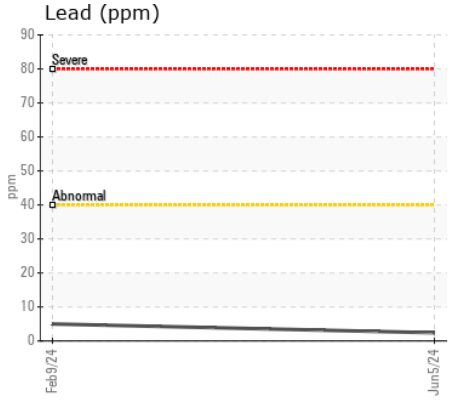
Viscosity @ 100°C



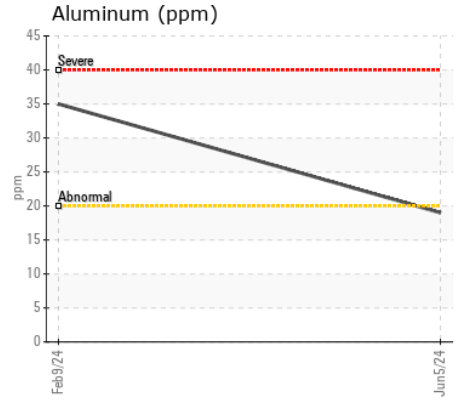
Iron (ppm)



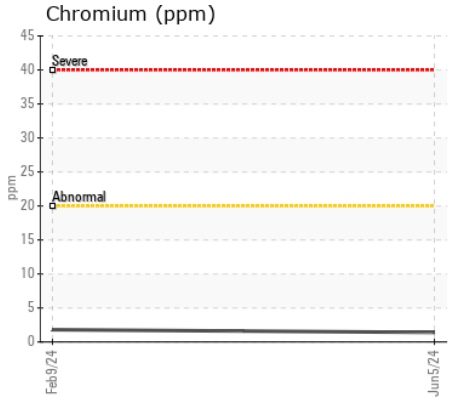
Lead (ppm)



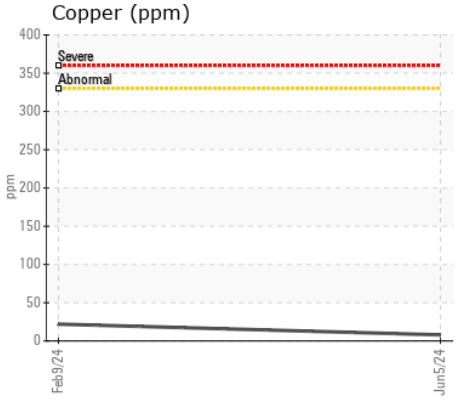
Aluminum (ppm)



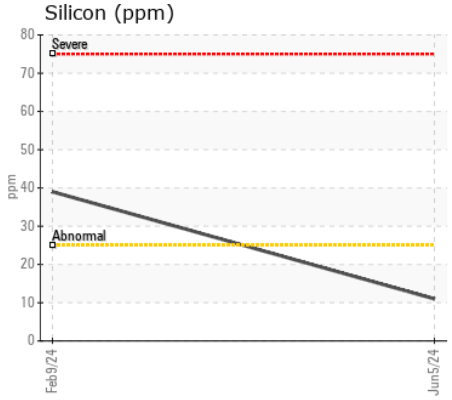
Chromium (ppm)



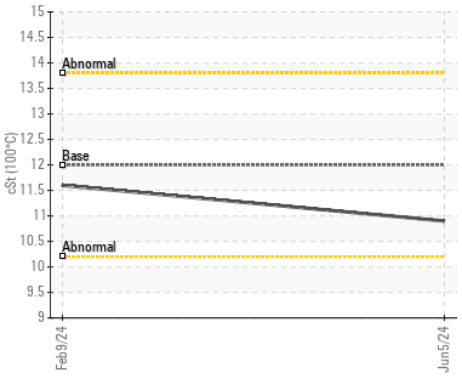
Copper (ppm)



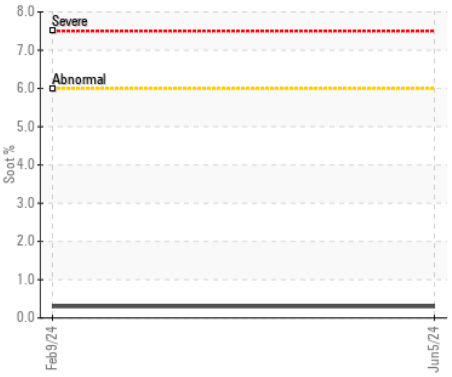
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0915468
Lab Number : 02640158
Unique Number : 5789320
Test Package : MOB 1

Received : 06 Jun 2024
Tested : 06 Jun 2024
Diagnosed : 06 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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