MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
52962
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

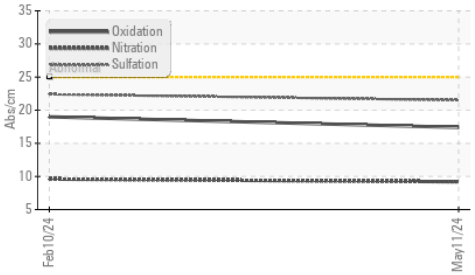
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

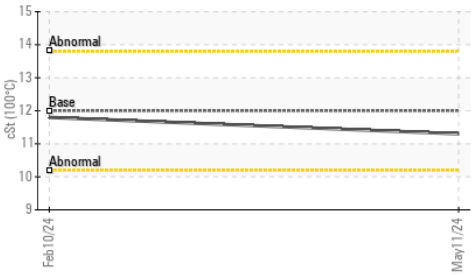
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0915453	WC0904893	---
Sample Date		Client Info		11 May 2024	10 Feb 2024	---
Machine Age	mls	Client Info		60775	29830	---
Oil Age	mls	Client Info		30945	27441	---
Filter Age	mls	Client Info		30945	27441	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185(m)	>100	32	77	---
Chromium	ppm	ASTM D5185(m)	>20	1	2	---
Nickel	ppm	ASTM D5185(m)	>4	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	17	39	---
Lead	ppm	ASTM D5185(m)	>40	3	5	---
Copper	ppm	ASTM D5185(m)	>330	6	20	---
Tin	ppm	ASTM D5185(m)	>15	2	3	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Silicon	ppm	ASTM D5185(m)	>25	8	35	---
Potassium	ppm	ASTM D5185(m)	>20	44	121	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.3	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	9.2	9.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.5	22.4	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		2	5	---
Boron	ppm	ASTM D5185(m)	2	7	40	---
Barium	ppm	ASTM D5185(m)	0	<1	4	---
Molybdenum	ppm	ASTM D5185(m)	50	63	62	---
Manganese	ppm	ASTM D5185(m)	0	1	5	---
Magnesium	ppm	ASTM D5185(m)	950	948	469	---
Calcium	ppm	ASTM D5185(m)	1050	1180	1726	---
Phosphorus	ppm	ASTM D5185(m)	995	1036	986	---
Zinc	ppm	ASTM D5185(m)	1180	1242	1179	---
Sulfur	ppm	ASTM D5185(m)	2600	2434	2561	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.4	19.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	11.8	---

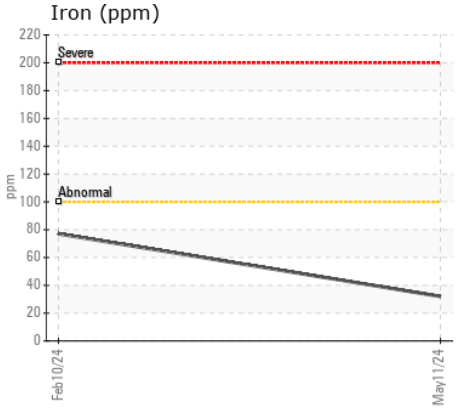
FT-IR (Direct Trend)



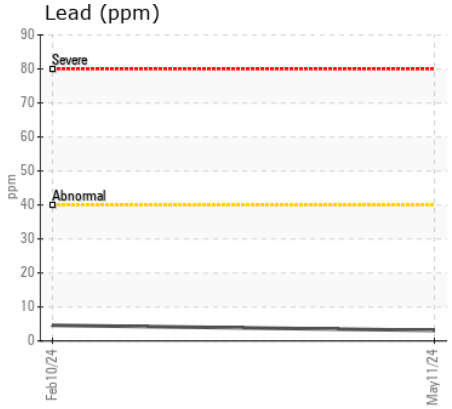
Viscosity @ 100°C



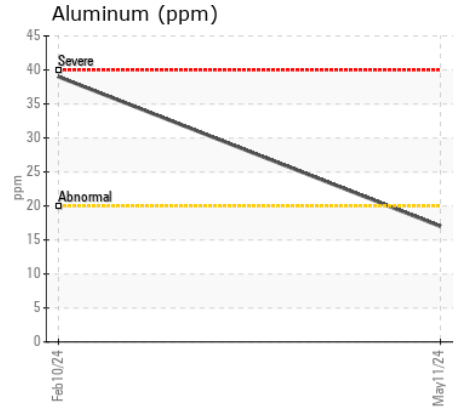
Iron (ppm)



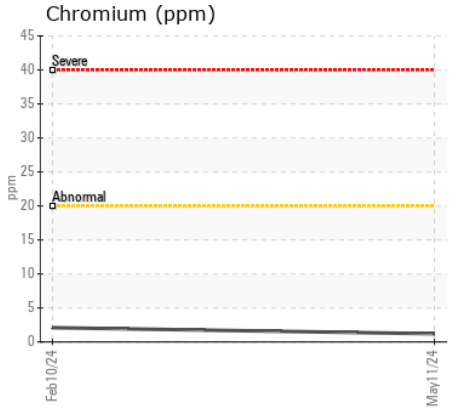
Lead (ppm)



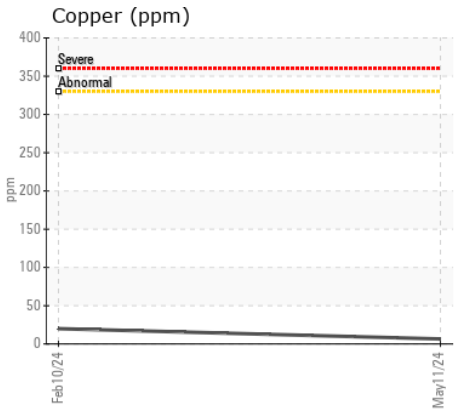
Aluminum (ppm)



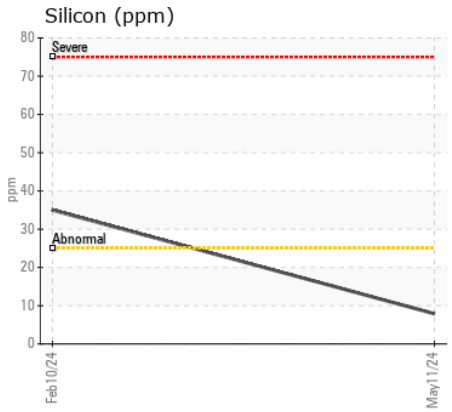
Chromium (ppm)



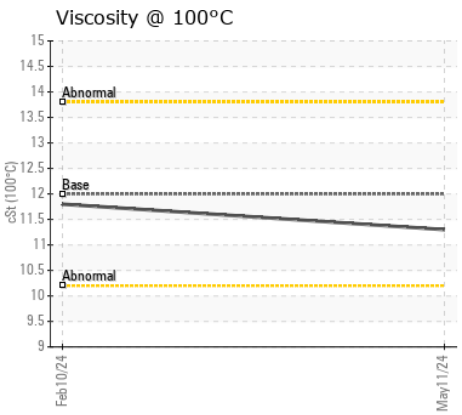
Copper (ppm)



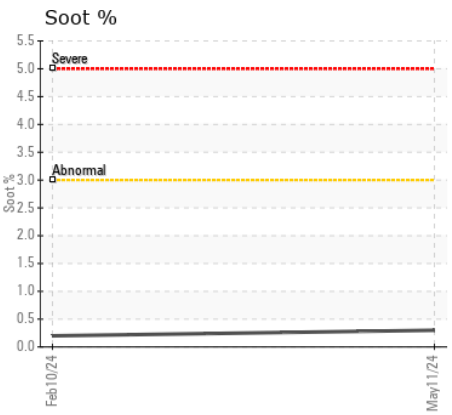
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0915453
Lab Number : 02635220
Unique Number : 5776373
Test Package : MOB 1

Received : 14 May 2024
Tested : 14 May 2024
Diagnosed : 14 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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