MOB I LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
21
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (--- 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

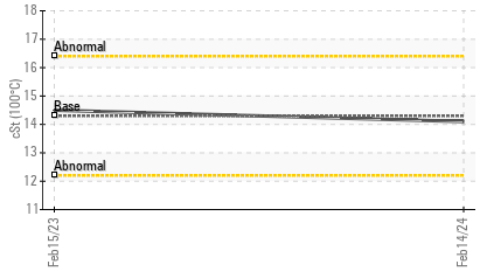
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0066778	PC0064373	---
Sample Date		Client Info		14 Feb 2024	15 Feb 2023	---
Machine Age	hrs	Client Info		10446	9778	---
Oil Age	hrs	Client Info		327	250	---
Filter Age	hrs	Client Info		327	250	---
Oil Changed		Client Info		Not Changd	N/A	---
Filter Changed		Client Info		Not Changd	N/A	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185(m)	>100	6	5	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	0	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	3	3	---
Lead	ppm	ASTM D5185(m)	>40	0	<1	---
Copper	ppm	ASTM D5185(m)	>330	<1	1	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Silicon	ppm	ASTM D5185(m)	>25	3	4	---
Potassium	ppm	ASTM D5185(m)	>20	6	3	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.2	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.4	7.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	21.6	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		7	6	---
Boron	ppm	ASTM D5185(m)	65	38	43	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	65	55	57	---
Manganese	ppm	ASTM D5185(m)	0	0	<1	---
Magnesium	ppm	ASTM D5185(m)	1160	1045	1062	---
Calcium	ppm	ASTM D5185(m)	820	801	836	---
Phosphorus	ppm	ASTM D5185(m)	1160	984	1046	---
Zinc	ppm	ASTM D5185(m)	1260	1116	1136	---
Sulfur	ppm	ASTM D5185(m)	3000	2802	2787	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.8	17.0	---
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	86.3	89.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	14.1	14.5	---
Viscosity Index (VI)	Scale	ASTM D2270*	169	168	169	---

Report Id: CITKIM [WCAMIS] 02616992 (Generated: 02/22/2024 10:32:29) Rev: 1

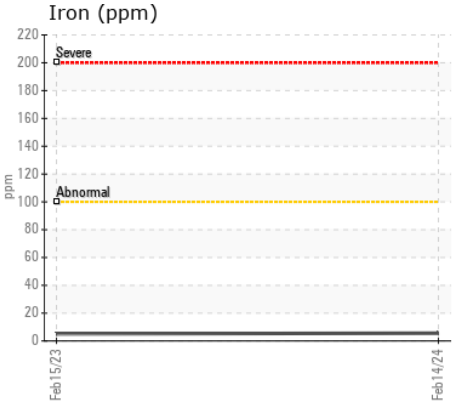
Contact/Location: Service Manager - CITKIM

Viscosity @ 100°C

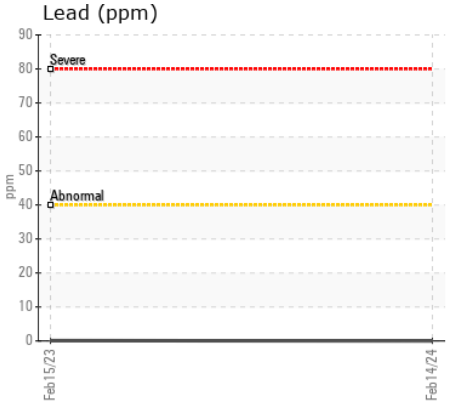


Viscosity @ 40°C

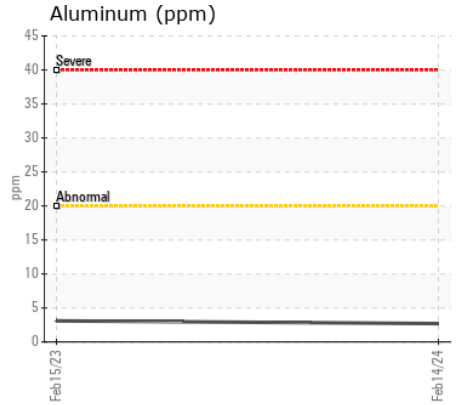
Iron (ppm)



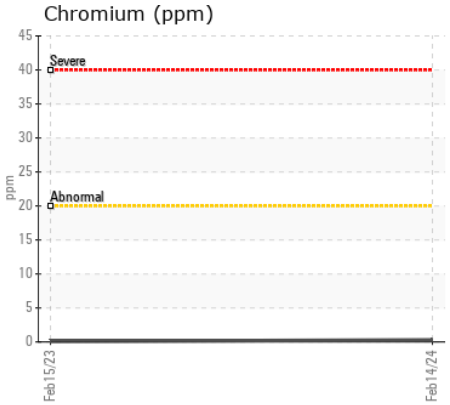
Lead (ppm)



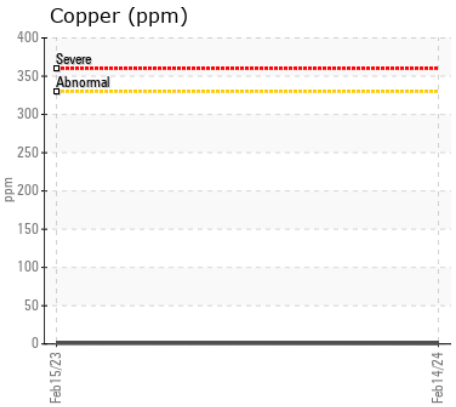
Aluminum (ppm)



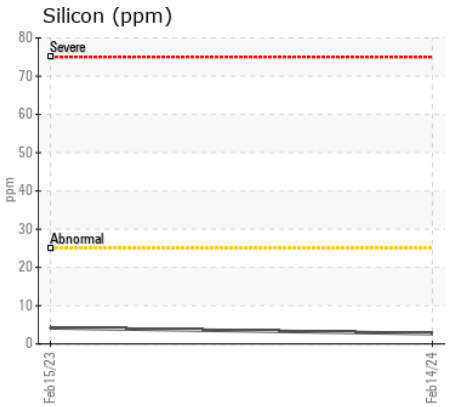
Chromium (ppm)



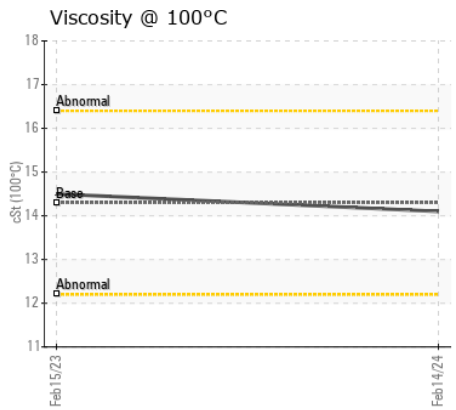
Copper (ppm)



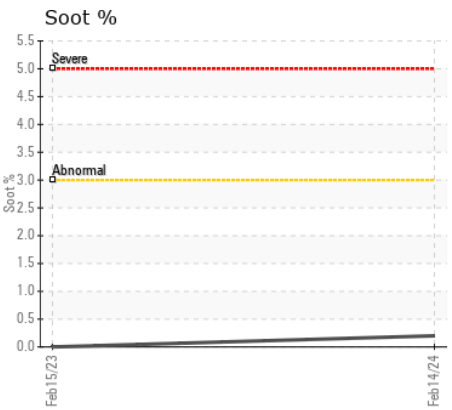
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0066778 **Received** : 21 Feb 2024
Lab Number : 02616992 **Tested** : 22 Feb 2024
Unique Number : 5734102 **Diagnosed** : 22 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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.

CITY OF KIMBERLEY
340 SPOKANE ST
KIMBERLEY, BC
CA V1A 2E8
Contact: Service Manager
ddrouin@kimberley.ca
T: (250)427-9675
F: