MOBIL LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH 138
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (44 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

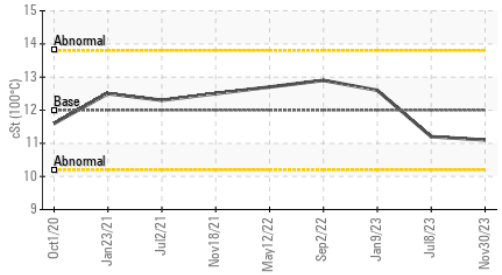
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

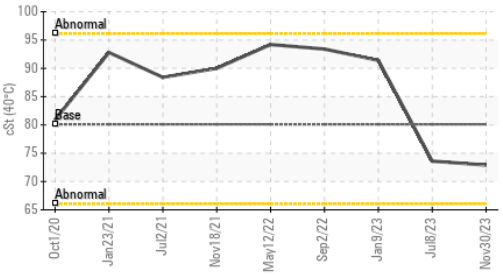
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**PC0081959**	PC0075196	PC0069222
Sample Date		Client Info		**30 Nov 2023**	08 Jul 2023	09 Jan 2023
Machine Age	kms	Client Info		**302387**	267877	235865
Oil Age	kms	Client Info		**34510**	32012	32935
Filter Age	kms	Client Info		**34510**	32012	32935
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	**28**	32	20
Chromium	ppm	ASTM D5185(m)	>20	**1**	1	<1
Nickel	ppm	ASTM D5185(m)	>4	**<1**	0	0
Titanium	ppm	ASTM D5185(m)		**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>3	**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	**4**	5	4
Lead	ppm	ASTM D5185(m)	>40	**2**	2	1
Copper	ppm	ASTM D5185(m)	>330	**<1**	1	<1
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**4**	4	4
Potassium	ppm	ASTM D5185(m)	>20	**6**	9	10
Fuel		WC Method	>5	**<1.0**	<1.0	0.6
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	ASTM D7844*	>3	**0.6**	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	**11.6**	10.7	10.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.4**	21.9	22.1
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**2**	4	4
Boron	ppm	ASTM D5185(m)	2	**<1**	2	2
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	50	**60**	60	58
Manganese	ppm	ASTM D5185(m)	0	**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	**982**	997	929
Calcium	ppm	ASTM D5185(m)	1050	**1086**	1041	1057
Phosphorus	ppm	ASTM D5185(m)	995	**1029**	1056	1010
Zinc	ppm	ASTM D5185(m)	1180	**1233**	1214	1161
Sulfur	ppm	ASTM D5185(m)	2600	**2656**	2533	2542
Oxidation	Abs/.1mm	ASTM D7414*	>25	**18.9**	18.6	16.9
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	**72.9**	73.6	91.4
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	**11.1**	11.2	12.6
Viscosity Index (VI)	Scale	ASTM D2270*	144	**142**	143	133

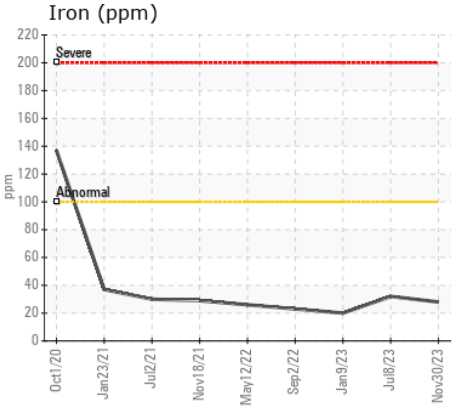
Viscosity @ 100°C



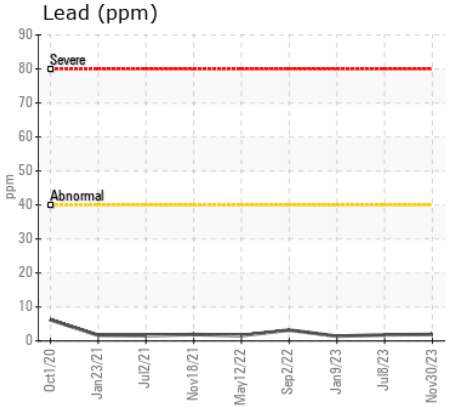
Viscosity @ 40°C



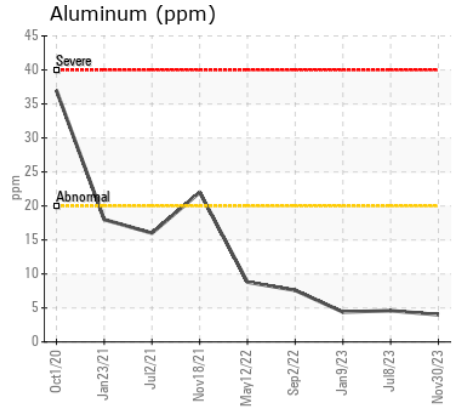
Iron (ppm)



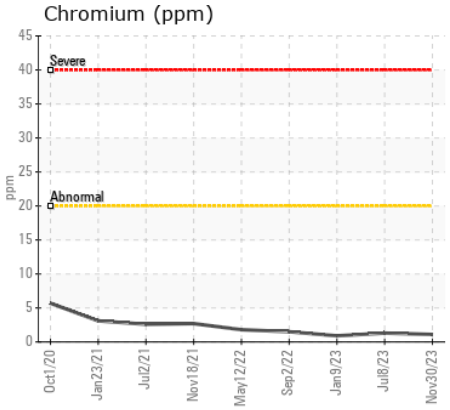
Lead (ppm)



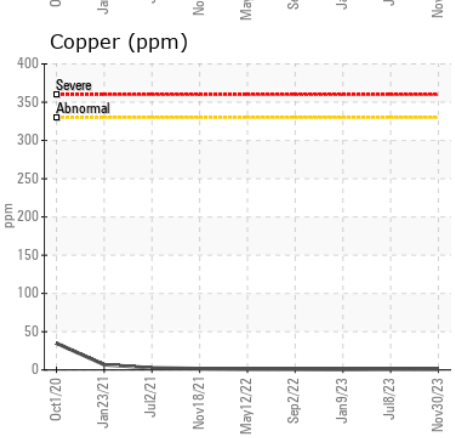
Aluminum (ppm)



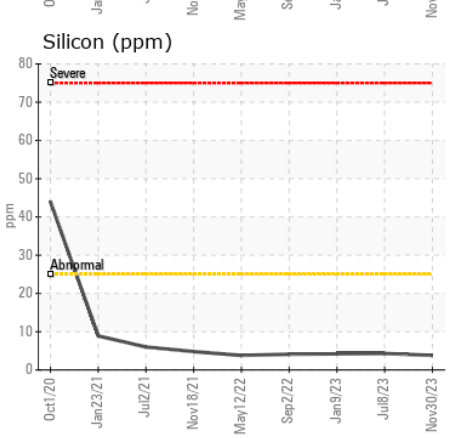
Chromium (ppm)



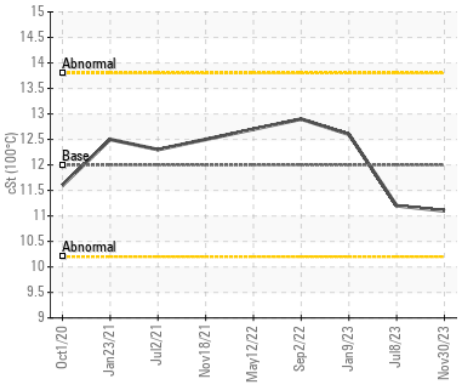
Copper (ppm)



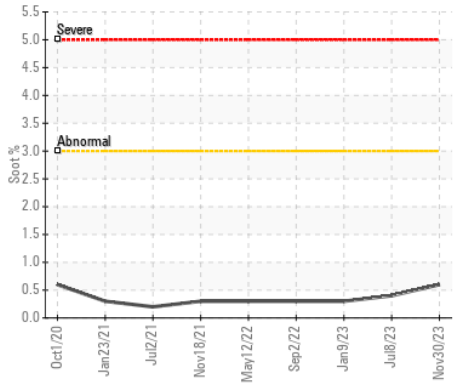
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081959
Lab Number : 02606439
Unique Number : 5707525
Test Package : MOB 1 (Additional Tests: KV40, VI)

Recieved : 04 Jan 2024
Diagnosed : 05 Jan 2024
Diagnostician : 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.

ROSS TOWING & TRANSPORTATION SERVICES INC
995 POND MILLS RD
LONDON, ON
CA N6N 1C3
Contact: Dave Ross
chris@rosstowing.ca
T: (519)685-1212
F: (519)668-5790