MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
52920
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

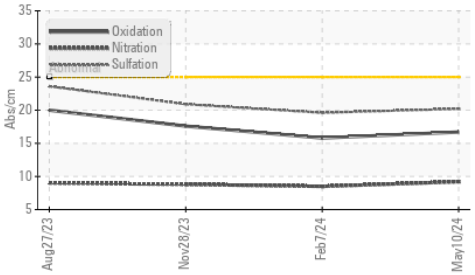
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

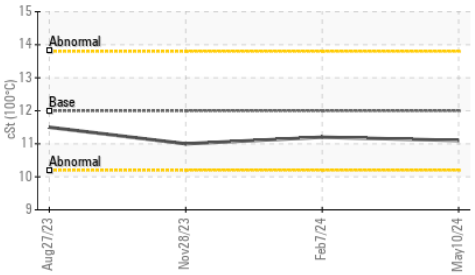
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0904889	WC0844369	WC0744889
Sample Date		Client Info		10 May 2024	07 Feb 2024	28 Nov 2023
Machine Age	kms	Client Info		109626	82420	98413
Oil Age	kms	Client Info		27206	21337	0
Filter Age	kms	Client Info		27206	21337	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	33	21	32
Chromium	ppm	ASTM D5185(m)	>20	1	1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	14	17	31
Lead	ppm	ASTM D5185(m)	>40	2	2	6
Copper	ppm	ASTM D5185(m)	>330	1	2	7
Tin	ppm	ASTM D5185(m)	>15	1	1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	4	5	10
Potassium	ppm	ASTM D5185(m)	>20	30	33	79
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>3	0.3	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.2	8.5	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	19.6	20.9
Emulsified Water	scalar	Visual*	>0.2	NEG	▲ .2%	NEG
Sodium	ppm	ASTM D5185(m)		1	1	3
Boron	ppm	ASTM D5185(m)	2	5	2	8
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	62	61	61
Manganese	ppm	ASTM D5185(m)	0	<1	0	1
Magnesium	ppm	ASTM D5185(m)	950	991	993	907
Calcium	ppm	ASTM D5185(m)	1050	1073	1091	1135
Phosphorus	ppm	ASTM D5185(m)	995	1020	1040	969
Zinc	ppm	ASTM D5185(m)	1180	1209	1208	1193
Sulfur	ppm	ASTM D5185(m)	2600	2475	2714	2344
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.7	15.8	17.6
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.1	11.2	11.0

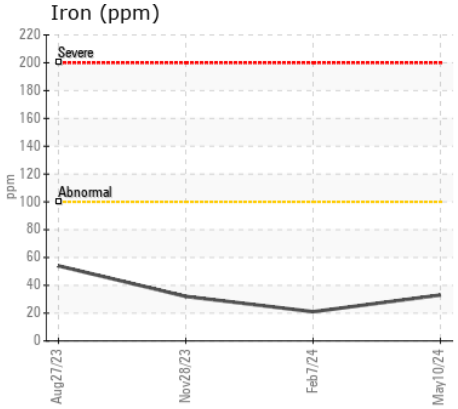
FT-IR (Direct Trend)



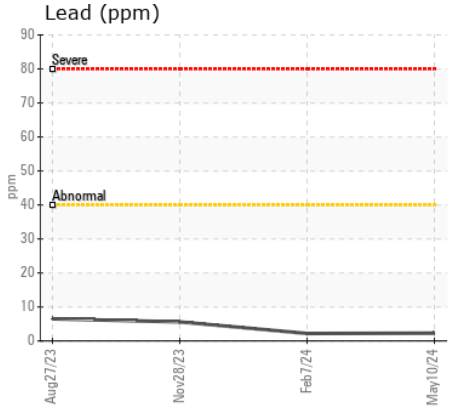
Viscosity @ 100°C



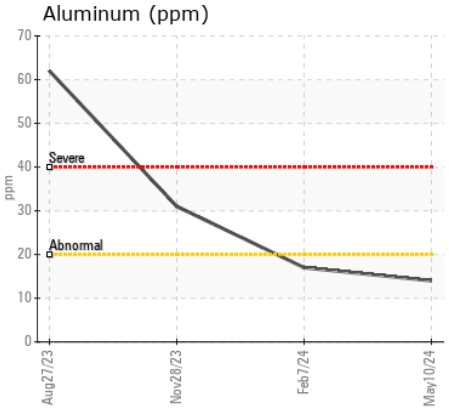
Iron (ppm)



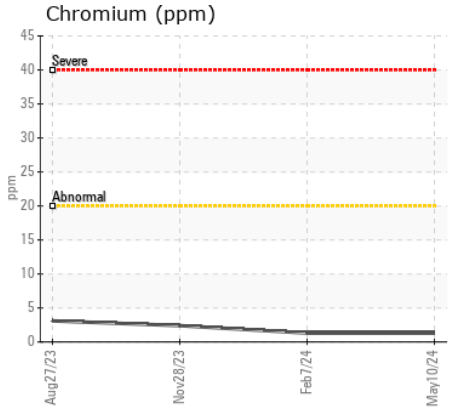
Lead (ppm)



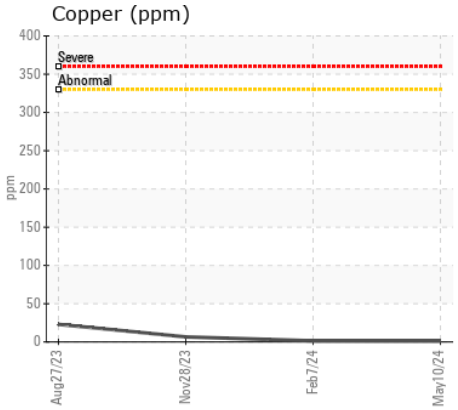
Aluminum (ppm)



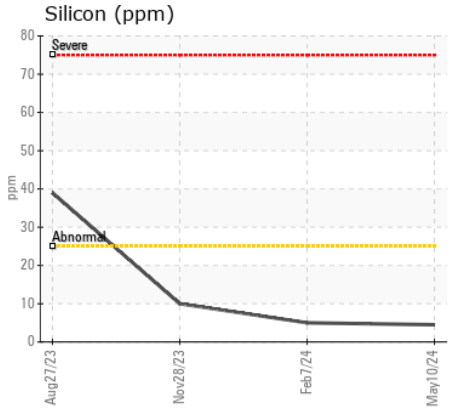
Chromium (ppm)



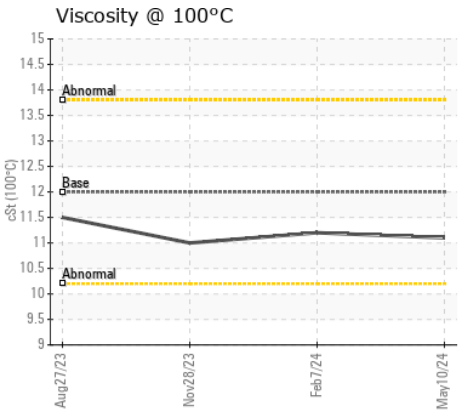
Copper (ppm)



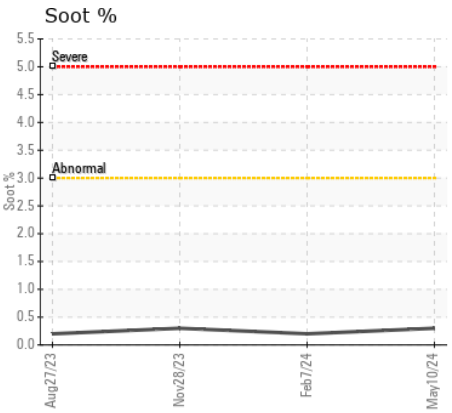
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904889
Lab Number : 02635221
Unique Number : 5776374
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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