MOBIL LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
813083
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 10W30 (--- GAL)

RECOMMENDATION

Confirmez la source du lubrifiant utilisé pour l'appoint/remplissage. Échantillonner de nouveau l`équipement au prochain intervalle de vidange afin d`en surveiller la condition.

WEAR

Les taux d`usure de tous les composants sont normaux.

CONTAMINATION

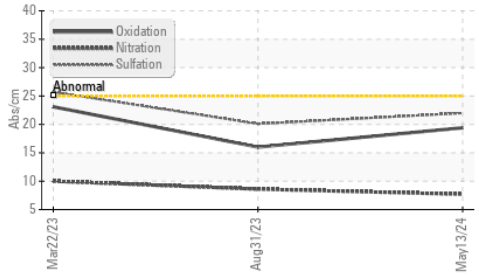
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n`y a aucun indice de contamination dans l`huile.

FLUID CONDITION

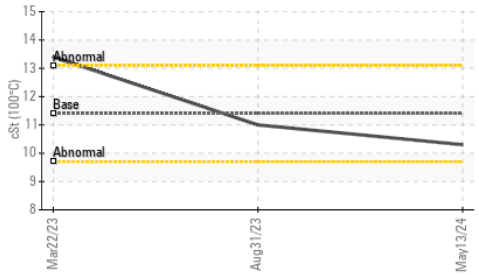
Les niveaux d`additifs indiquent l`ajout d`une autre marque ou d`un autre type d`huile. L`état de l`huile est acceptable pour la durée de service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0088196	PC0077665	PC0066276
Sample Date		Client Info		13 May 2024	31 Aug 2023	22 Mar 2023
Machine Age	hrs	Client Info		50695	1465	8056
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>80	9	30	34
Chromium	ppm	ASTM D5185(m)	>5	<1	2	1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	3	6	4
Lead	ppm	ASTM D5185(m)	>30	0	0	<1
Copper	ppm	ASTM D5185(m)	>150	<1	3	15
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>20	3	5	20
Potassium	ppm	ASTM D5185(m)	>20	6	19	3
Fuel		WC Method	>5	<1.0	1.1	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.4	0.2
Nitration	Abs/cm	ASTM D7624*	>20	7.7	8.6	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.0	20.1	25.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		2	3	5
Boron	ppm	ASTM D5185(m)	1	31	11	39
Barium	ppm	ASTM D5185(m)	1	0	<1	5
Molybdenum	ppm	ASTM D5185(m)	1	37	60	46
Manganese	ppm	ASTM D5185(m)	1	<1	2	9
Magnesium	ppm	ASTM D5185(m)	10	501	928	610
Calcium	ppm	ASTM D5185(m)	2942	1665	1109	1744
Phosphorus	ppm	ASTM D5185(m)	1102	751	1012	827
Zinc	ppm	ASTM D5185(m)	1351	886	1174	901
Sulfur	ppm	ASTM D5185(m)	3903	2179	2308	2047
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.4	16.0	23.1
Visc @ 40°C	cSt	ASTM D7279(m)	74.0	65.7	▲ 72.2	100
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	10.3	▲ 11.0	13.4
Viscosity Index (VI)	Scale	ASTM D2270*	146	143	142	133

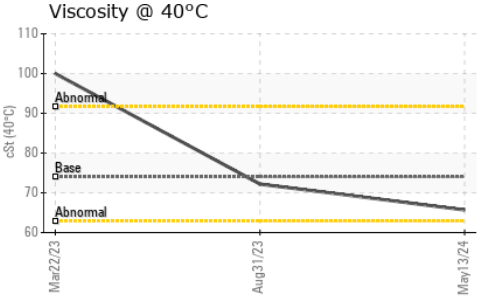
FT-IR (Direct Trend)



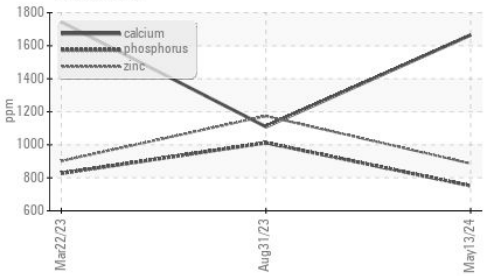
Viscosity @ 100°C



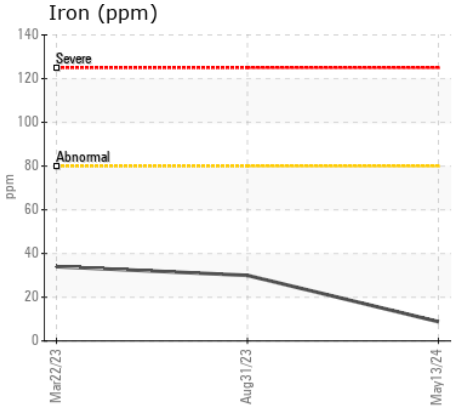
Viscosity @ 40°C



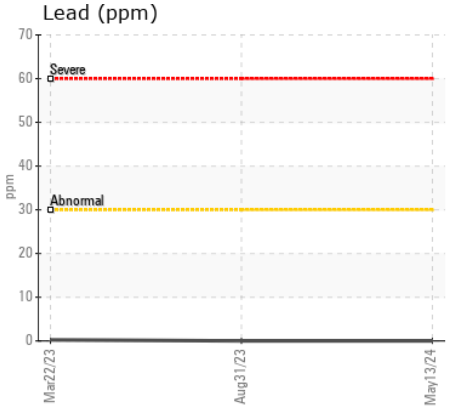
Additives



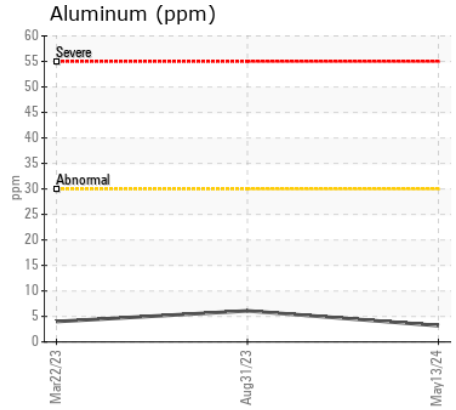
Iron (ppm)



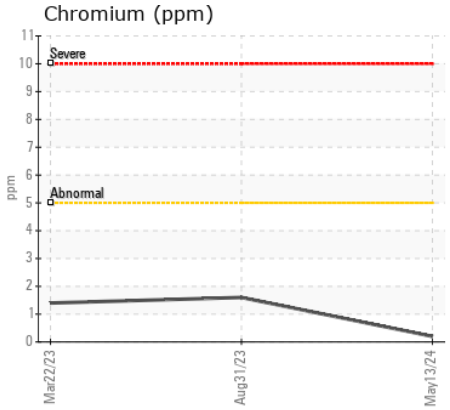
Lead (ppm)



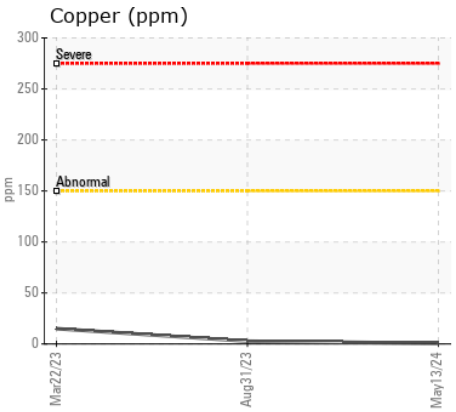
Aluminum (ppm)



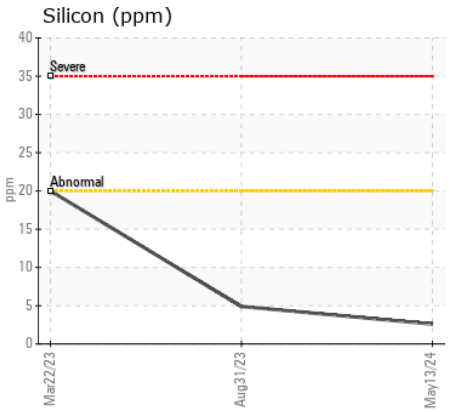
Chromium (ppm)



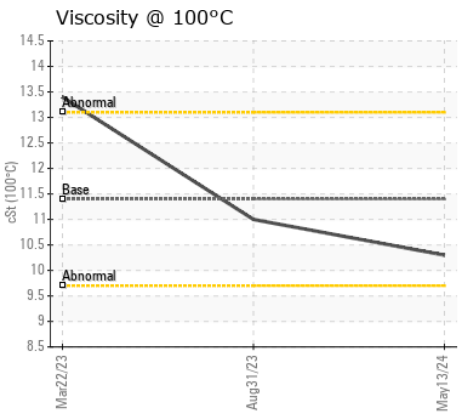
Copper (ppm)



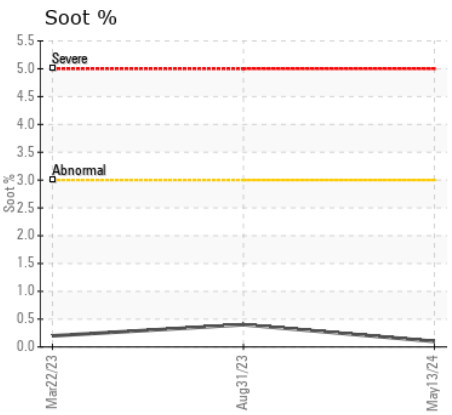
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088196
Lab Number : 02635605
Unique Number : 5776758
Test Package : MOB 1 (Additional Tests: KV40, VI)

Received : 15 May 2024
Tested : 15 May 2024
Diagnosed : 16 May 2024 - Kevin Marson

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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