



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
395
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0903685	WC0846894	WC0768158
Sample Date		Client Info		08 Feb 2024	28 Jul 2023	16 Jan 2023
Machine Age	kms	Client Info		555460	514018	475528
Oil Age	kms	Client Info		41442	30730	19548
Filter Age	kms	Client Info		41442	30730	19548
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Usure de piston.

Iron	ppm	ASTM D5185(m)	>200	48	49	27
Chromium	ppm	ASTM D5185(m)	>20	2	2	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	▲ 33	20	12
Lead	ppm	ASTM D5185(m)	>30	<1	0	0
Copper	ppm	ASTM D5185(m)	>30	5	4	3
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

Il n'y a aucun indice de contamination dans l'huile.

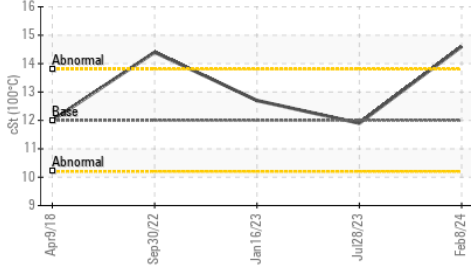
Silicon	ppm	ASTM D5185(m)	>30	5	6	4
Potassium	ppm	ASTM D5185(m)	>20	26	3	1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.4	0.9	0.5
Nitration	Abs/cm	ASTM D7624*	>20	11.9	12.9	11.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.1	26.1	24.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

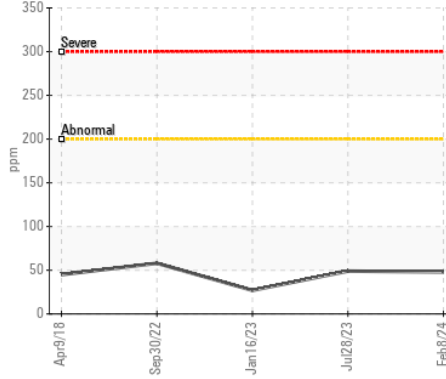
Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. La viscosité de l'échantillon se situe dans la portée de l'SAE 40; nous vous conseillons de vérifier. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		4	7	5
Boron	ppm	ASTM D5185(m)	2	6	12	18
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	63	62	60
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	1026	1128	1070
Calcium	ppm	ASTM D5185(m)	1050	1068	867	925
Phosphorus	ppm	ASTM D5185(m)	995	1015	1072	1093
Zinc	ppm	ASTM D5185(m)	1180	1234	1238	1223
Sulfur	ppm	ASTM D5185(m)	2600	2522	2598	2723
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.4	22.3	19.5
Base Number (BN)	mg KOH/g	ASTM D2896*		7.99	7.19	3.72
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	▲ 14.6	11.9	12.7

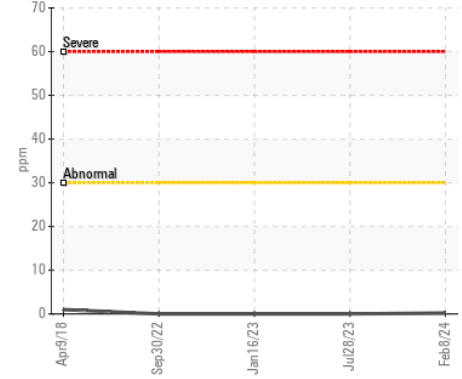
▲ Viscosity @ 100°C



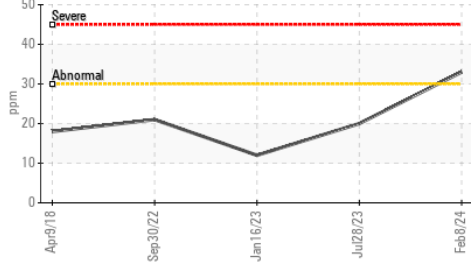
Iron (ppm)



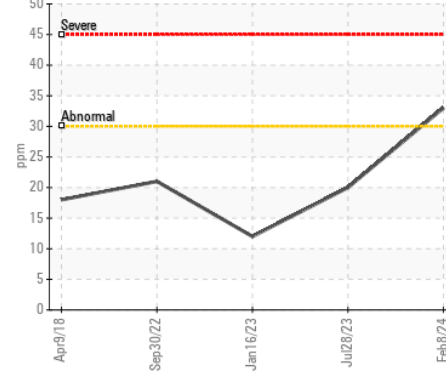
Lead (ppm)



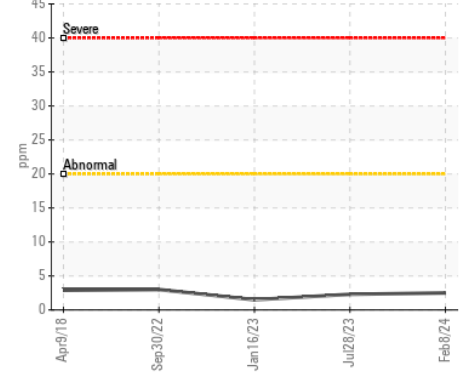
▲ Aluminum (ppm)



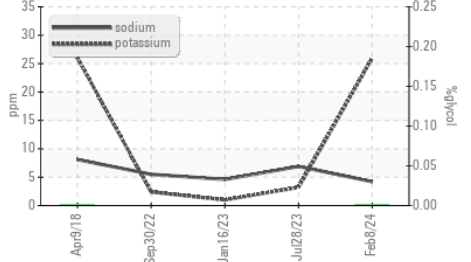
▲ Aluminum (ppm)



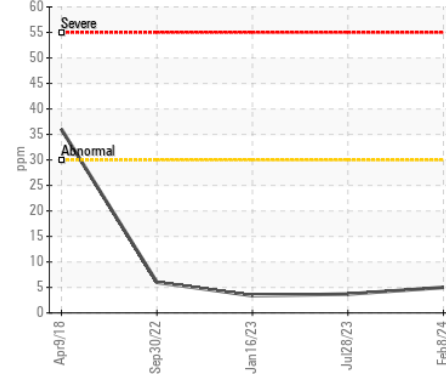
Chromium (ppm)



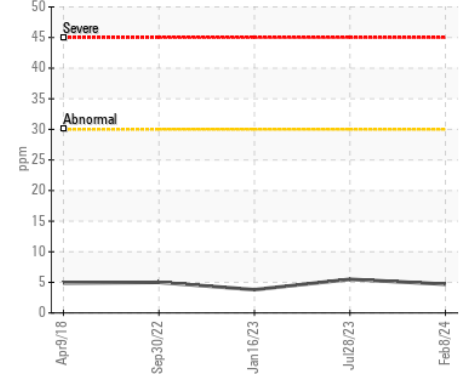
Glycol Contamination



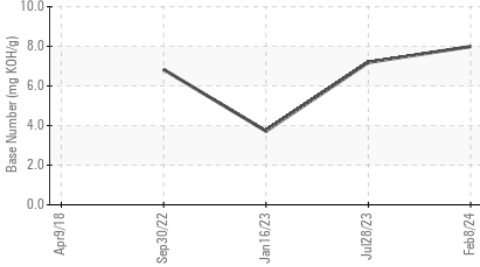
Copper (ppm)



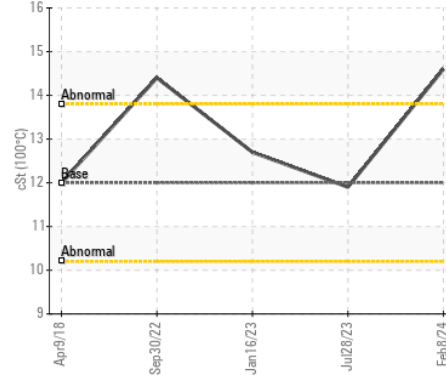
Silicon (ppm)



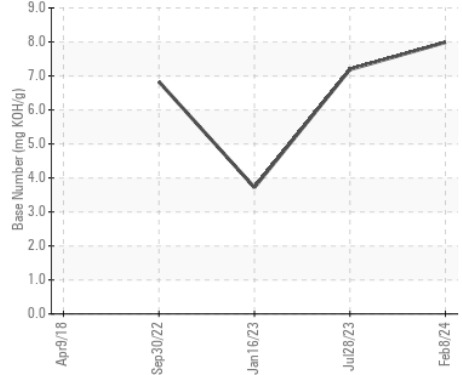
Base Number



▲ Viscosity @ 100°C



Base Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0903685 **Received** : 16 Feb 2024
Lab Number : 02616151 **Tested** : 20 Feb 2024
Unique Number : 5733261 **Diagnosed** : 20 Feb 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: Glycol)

Lachine - Transport Laberge
 435 rue Norman
 Lachine, QC
 CA H8S 1A5
 Contact: Service Manager

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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F: