



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
367
 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		WC0928210	WC0874979	WC0805587
Sample Date		Client Info		26 Mar 2024	14 Nov 2023	18 May 2023
Machine Age	kms	Client Info		889787	872117	852109
Oil Age	kms	Client Info		17670	20008	17081
Filter Age	kms	Client Info		17670	20008	17081
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Usure de cylindre, de vilebrequin ou d'arbre à cames.

PQ		ASTM D8184*	>80	5	3	---
Iron	ppm	ASTM D5185(m)	>65	▲ 116	▲ 114	71
Chromium	ppm	ASTM D5185(m)	>5	3	3	2
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>35	24	22	25
Lead	ppm	ASTM D5185(m)	>10	0	<1	0
Copper	ppm	ASTM D5185(m)	>180	6	6	5
Tin	ppm	ASTM D5185(m)	>8	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

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

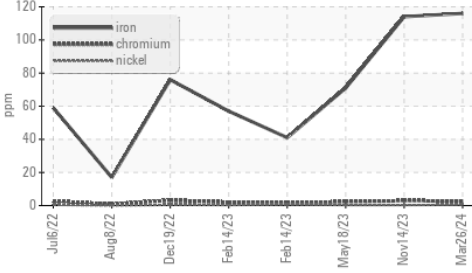
Silicon	ppm	ASTM D5185(m)	>15	6	8	16
Potassium	ppm	ASTM D5185(m)	>20	1	1	1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.7	0.4
Nitration	Abs/cm	ASTM D7624*	>20	11.2	12.3	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.7	23.5	21.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

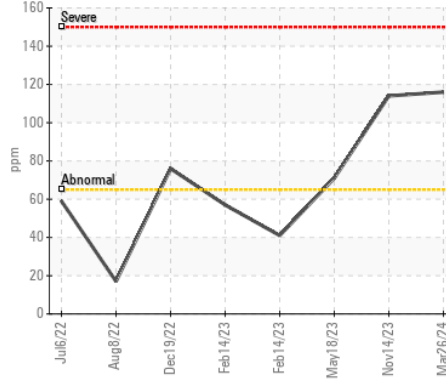
Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		2	4	5
Boron	ppm	ASTM D5185(m)	2	3	15	25
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	61	62	62
Manganese	ppm	ASTM D5185(m)	0	1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	1023	1094	1129
Calcium	ppm	ASTM D5185(m)	1050	1048	864	923
Phosphorus	ppm	ASTM D5185(m)	995	997	972	1152
Zinc	ppm	ASTM D5185(m)	1180	1209	1213	1256
Sulfur	ppm	ASTM D5185(m)	2600	2405	2570	2821
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.2	21.8	19.9
Base Number (BN)	mg KOH/g	ASTM D2896*		9.24	7.45	9.04
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	12.3	12.5	12.5

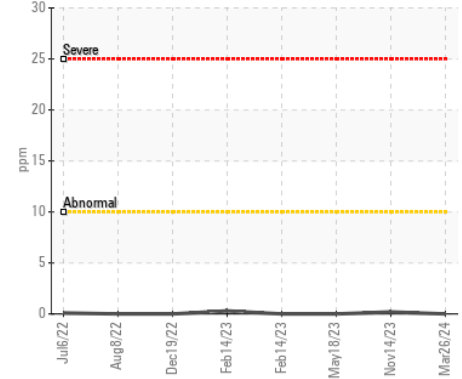
▲ Ferrous Alloys



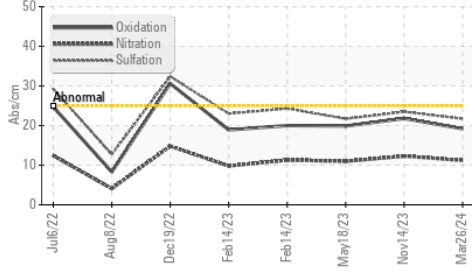
▲ Iron (ppm)



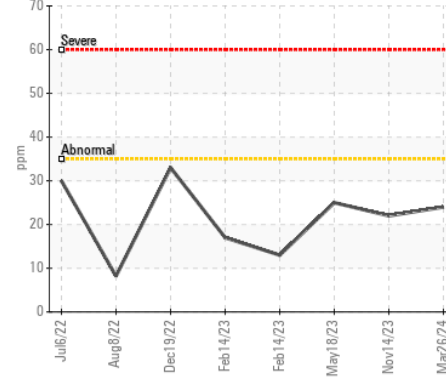
Lead (ppm)



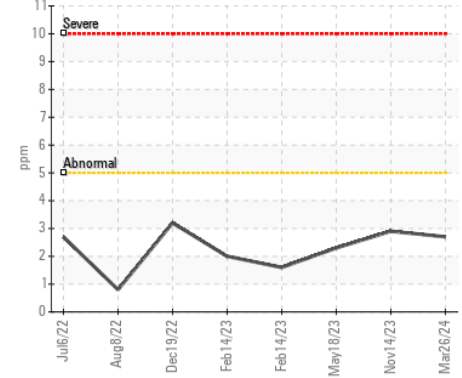
FT-IR (Direct Trend)



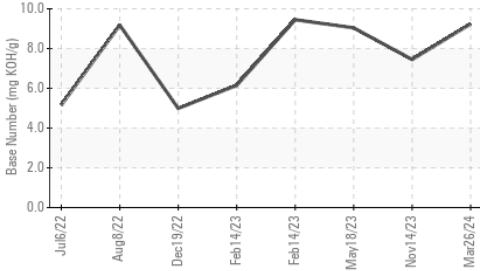
Aluminum (ppm)



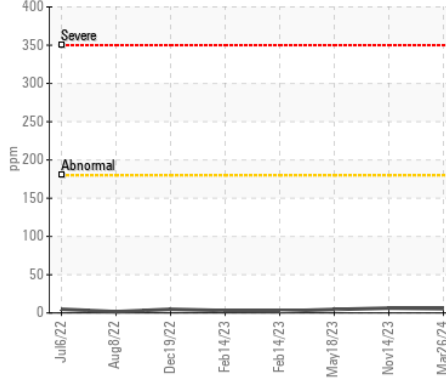
Chromium (ppm)



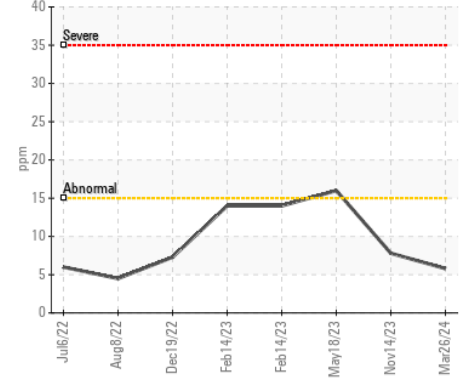
Base Number



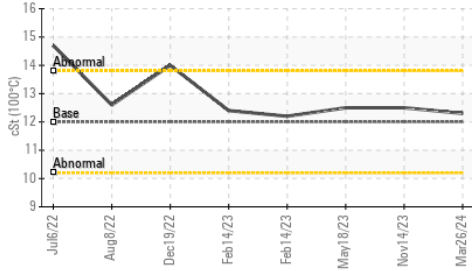
Copper (ppm)



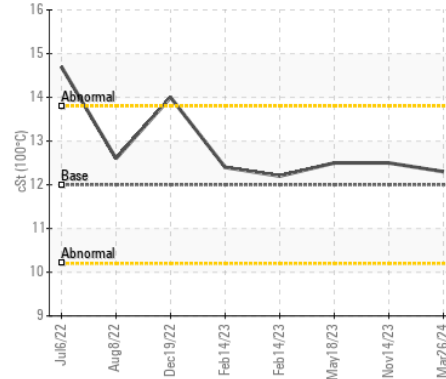
Silicon (ppm)



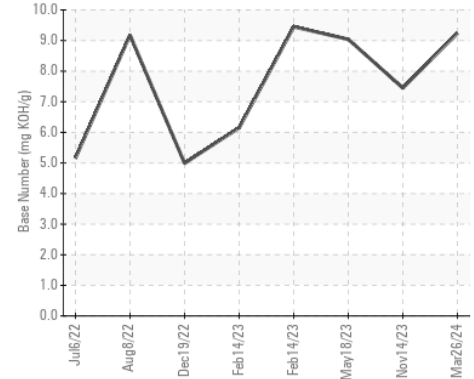
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



PQ



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0928210 **Received** : 11 Apr 2024
Lab Number : 02628102 **Tested** : 12 Apr 2024
Unique Number : 5761234 **Diagnosed** : 12 Apr 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: PQ)

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: