



# RAPPORT D'ANALYSE D'HUILE

USURE	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
ÉTAT DU FLUIDE	<b>NORMAL</b>

Secteur

## MICHAUDVILLE

Identité de la machine

### 1592

Composant

### Moteur diesel

Fluid

### PETRO CANADA DURON SHP 10W30 (--- GAL)

### RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>PC0084321</b>	PC0082247	PC0070973
Date d'échant.		Client Info		<b>30 May 2024</b>	20 Sep 2023	16 Apr 2023
Âge d la Machine	hrs	Client Info		<b>18118</b>	17596	16635
Âge de l'huile	hrs	Client Info		<b>0</b>	0	0
Âge du filtre	hrs	Client Info		<b>0</b>	0	0
Huile changée		Client Info		<b>N/A</b>	N/A	N/A
Filtre changé		Client Info		<b>N/A</b>	N/A	N/A
Statut de l'échant.				<b>NORMAL</b>	NORMAL	NORMAL

### USURE

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>100	<b>19</b>	20	17
Chrome	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titane	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Argent	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>6</b>	15	2
Plomb	ppm	ASTM D5185(m)	>40	<b>4</b>	6	4
Cuivre	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Étain	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

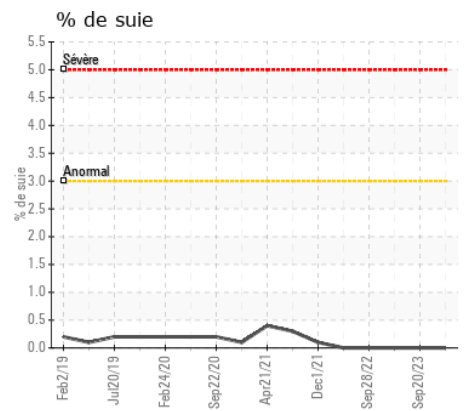
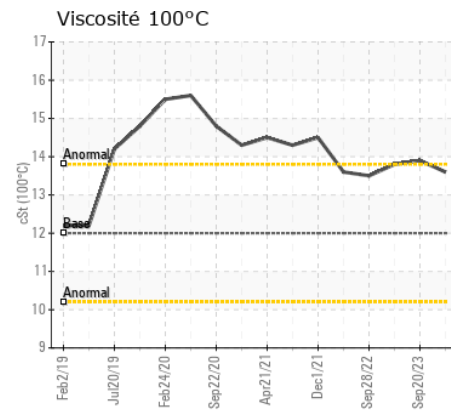
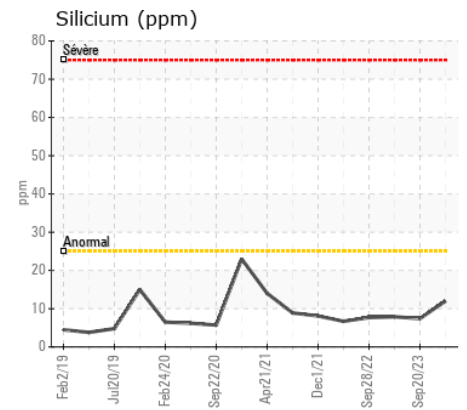
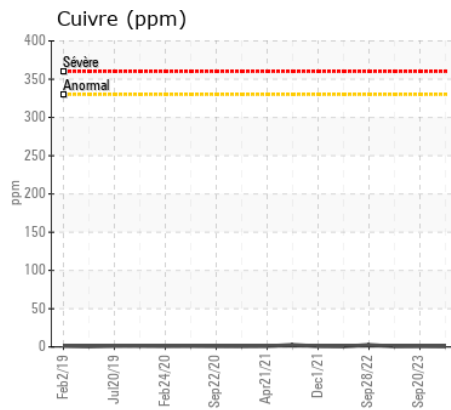
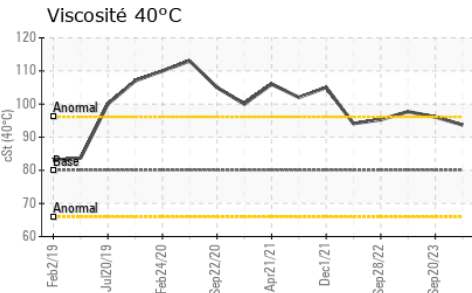
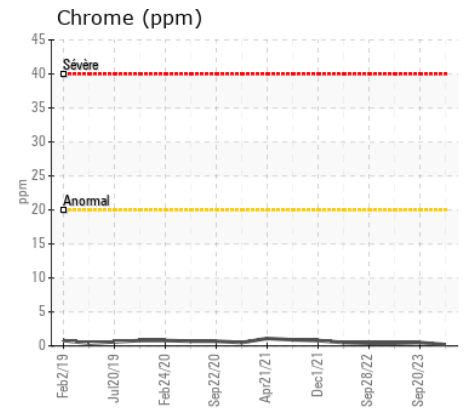
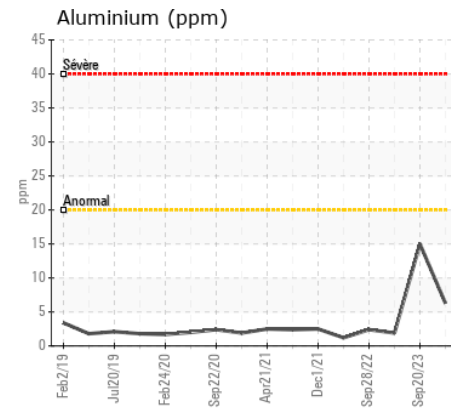
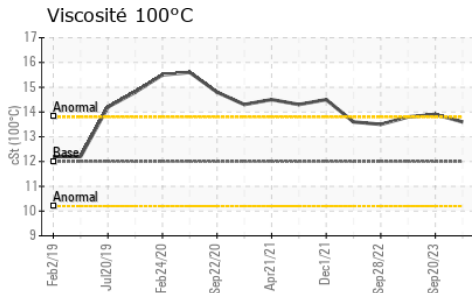
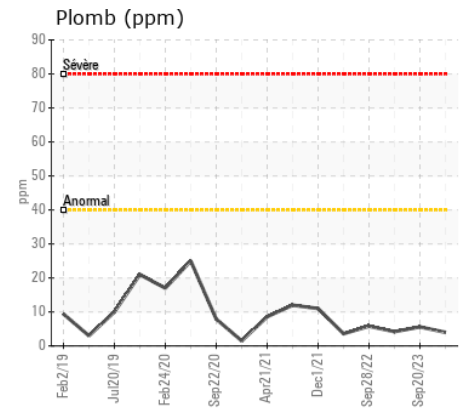
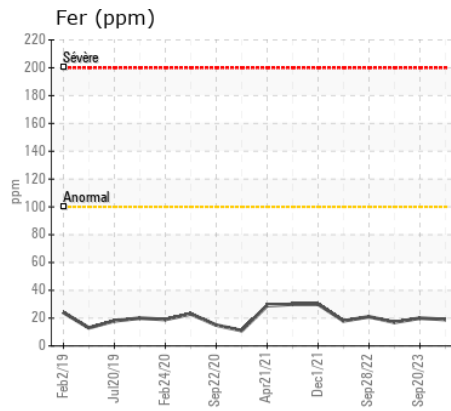
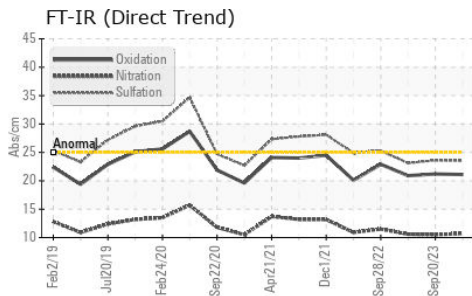
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>12</b>	7	8
Potassium	ppm	ASTM D5185(m)	>20	<b>13</b>	43	14
Essence		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
L'eau		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	0.0
% de suie	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.7</b>	10.5	10.6
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>23.5</b>	23.6	23.1
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

### ÉTAT DU FLUIDE

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

Sodium	ppm	ASTM D5185(m)		<b>3</b>	4	4
Bore	ppm	ASTM D5185(m)	2	<b>2</b>	2	3
Baryum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Molybdène	ppm	ASTM D5185(m)	50	<b>64</b>	64	68
Manganèse	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnésium	ppm	ASTM D5185(m)	950	<b>1061</b>	1081	1124
Calcium	ppm	ASTM D5185(m)	1050	<b>1230</b>	1226	1350
Phosphore	ppm	ASTM D5185(m)	995	<b>1062</b>	1191	1249
Zinc	ppm	ASTM D5185(m)	1180	<b>1323</b>	1341	1399
Soufre	ppm	ASTM D5185(m)	2600	<b>2582</b>	2691	2858
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>21.1</b>	21.2	20.9
Visc 40°C	cSt	ASTM D7279(m)	80.1	<b>93.7</b>	96.1	97.7
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>13.6</b>	13.9	13.8
Indice de viscosité (VI)	Scale	ASTM D2270*	144	<b>146</b>	147	142



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : PC0084321  
**N° de laboratoire** : 02639102  
**Numéro unique** : 5788264  
**Analyse** : MOB 1 ( Additional Tests: KV40, VI )

**LES ENTREPRISES MICHAUVILLE INC.**  
 270 RUE BRUNET  
 MONT ST-HILAIRE, QC  
 CA J3H 0M6  
 Contact: Martin Trudel  
 mtrudel@michaudville.com

Pour discuter ce rapport, contacter le service à la clientèle au 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 La validez de los resultados y la interpretación se basan en la muestra y la información proporcionada.

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