



Secteur

**MICHAUDVILLE**

Identité de la machine

**1597**

Composant

**Moteur diesel**

Fluid

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

**RECOMMENDATION**

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. 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>PC0088534</b>	PC0082467	PC0067160
Date d'échant.		Client Info		<b>03 Apr 2024</b>	26 Nov 2023	17 Nov 2022
Âge d la Machine	hrs	Client Info		<b>24169</b>	23703	12720
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>ABNORMAL</b>	ABNORMAL	NORMAL

**USURE**

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>100	<b>23</b>	58	6
Chrome	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Titane	ppm	ASTM D5185(m)		<b>0</b>	0	0
Argent	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>3</b>	4	2
Plomb	ppm	ASTM D5185(m)	>40	<b>4</b>	25	<1
Cuivre	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	3	<1
Étain	ppm	ASTM D5185(m)	>15	<b>0</b>	1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

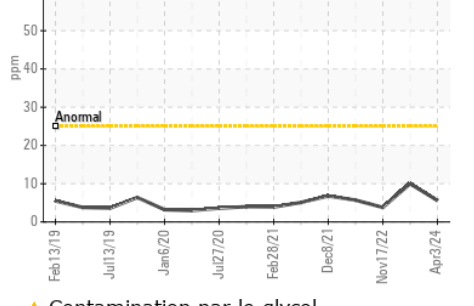
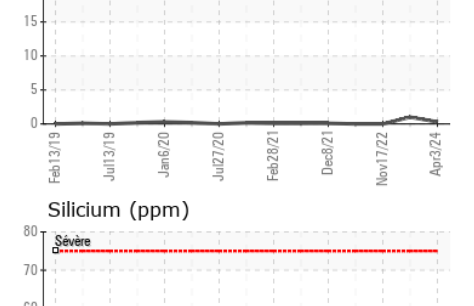
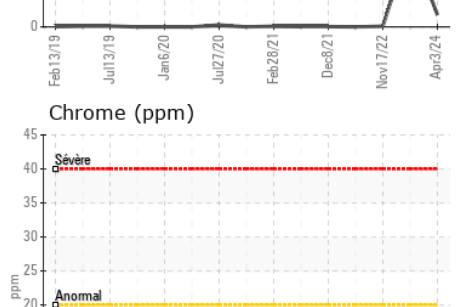
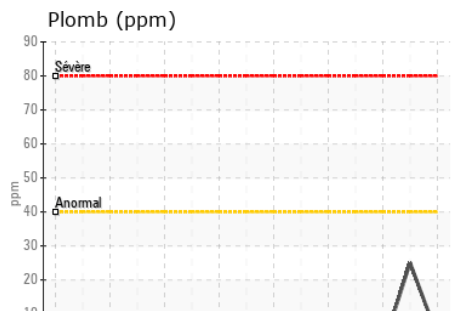
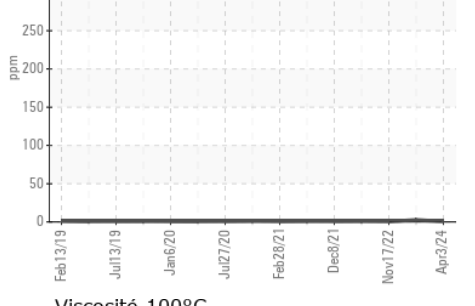
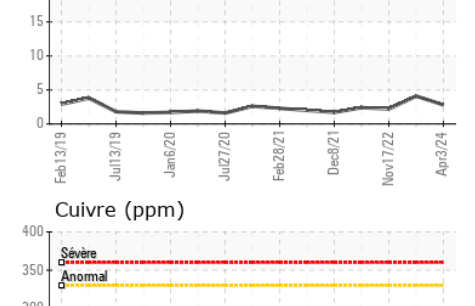
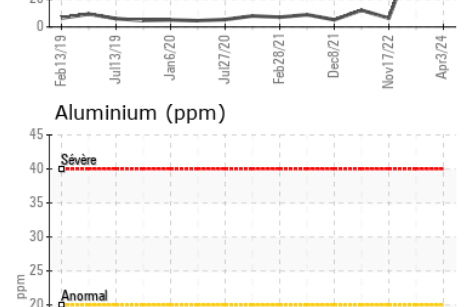
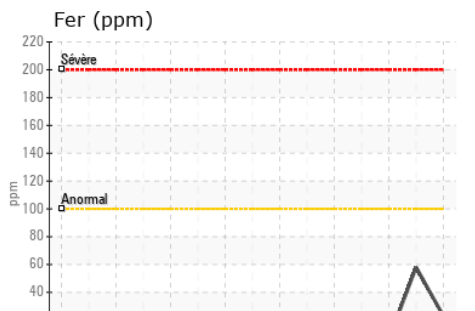
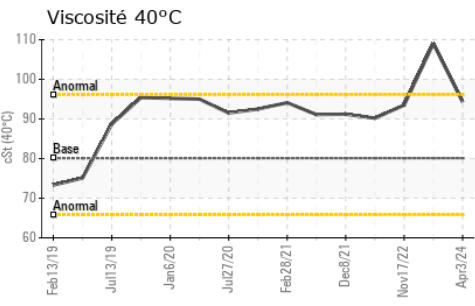
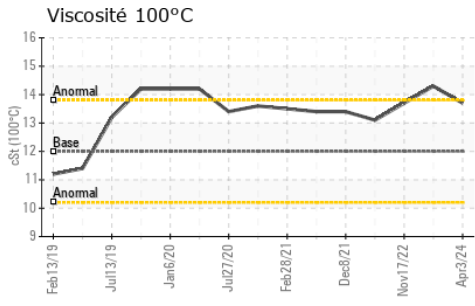
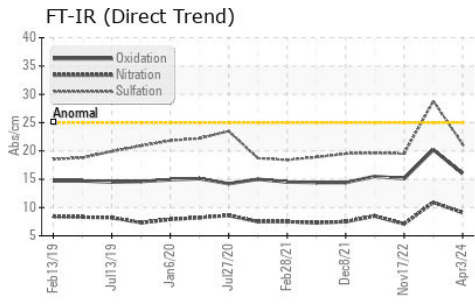
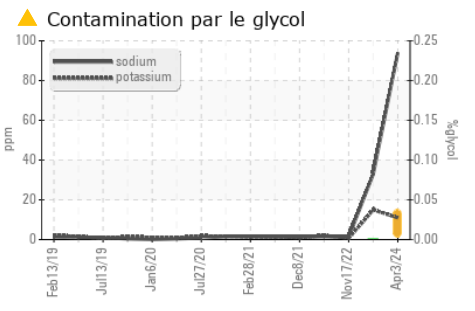
Test for glycol is positive. There is a light concentration of glycol present in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>6</b>	10	4
Potassium	ppm	ASTM D5185(m)	>20	<b>▲ 11</b>	15	<1
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	%	ASTM D7922*		<b>▲ 0.037</b>	0.0	NEG
% de suie	%	ASTM D7844*	>3	<b>0.3</b>	0.7	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.1</b>	10.9	7.1
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>21.2</b>	28.8	19.5
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**ÉTAT DU FLUIDE**

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		<b>● 94</b>	33	1
Bore	ppm	ASTM D5185(m)	2	<b>2</b>	11	2
Baryum	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdène	ppm	ASTM D5185(m)	50	<b>61</b>	32	56
Manganèse	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnésium	ppm	ASTM D5185(m)	950	<b>853</b>	266	923
Calcium	ppm	ASTM D5185(m)	1050	<b>1285</b>	2293	1092
Phosphore	ppm	ASTM D5185(m)	995	<b>1007</b>	1022	1050
Zinc	ppm	ASTM D5185(m)	1180	<b>1196</b>	1260	1144
Soufre	ppm	ASTM D5185(m)	2600	<b>2583</b>	2937	2610
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>16.0</b>	20.2	15.1
Visc 40°C	cSt	ASTM D7279(m)	80.1	<b>94.3</b>	<b>▲ 109</b>	93.5
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>13.7</b>	<b>▲ 14.3</b>	13.7
Indice de viscosité (VI)	Scale	ASTM D2270*	144	<b>147</b>	133	148



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : PC0088534  
**N° de laboratoire** : 02626567  
**Numéro unique** : 5759699  
**Analyse** : MOB 1 ( Additional Tests: Glycol, KV40, VI )

**LES ENTREPRISES MICHAUDVILLE INC.**  
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 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.