



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DHR#3 Mécanisme d'entraînement Bât 324 (S/N # Équipement: 324C1047)

Component
Gear Train

Fluid
ESSO SPARTAN EP 220 (300 LTR)

RECOMMENDATION

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Veuillez préciser la marque et le modèle du composant lors du prochain échantillon.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0922067	WC	WC21020483
Sample Date		Client Info		24 Apr 2024	22 Jun 2015	08 Jun 2011
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>200	93	318	▲ 306
Chromium	ppm	ASTM D5185(m)	>10	0	3	2
Nickel	ppm	ASTM D5185(m)		0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>50	<1	<1	0
Lead	ppm	ASTM D5185(m)	>50	0	0	0
Copper	ppm	ASTM D5185(m)	>200	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

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

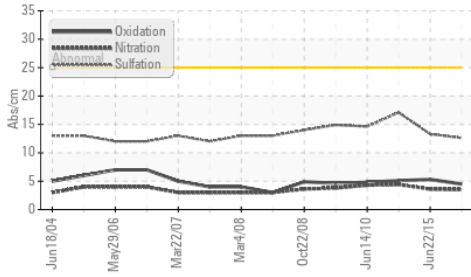
Silicon	ppm	ASTM D5185(m)	>50	0	1	1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*		3.5	3.6	4.4
Sulfation	Abs/.1mm	ASTM D7415*		12.6	13.3	17.1
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	VLITE	LIGHT
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

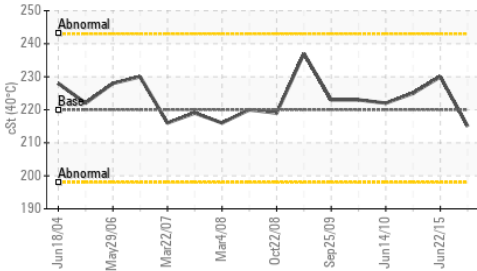
L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		5	2	1
Boron	ppm	ASTM D5185(m)	.5	<1	<1	0
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	<1	<1
Manganese	ppm	ASTM D5185(m)		2	1	2
Magnesium	ppm	ASTM D5185(m)	0	<1	0	0
Calcium	ppm	ASTM D5185(m)	1.7	2	1	<1
Phosphorus	ppm	ASTM D5185(m)	250	202	173	182
Zinc	ppm	ASTM D5185(m)	.3	11	<1	0
Sulfur	ppm	ASTM D5185(m)		13780	7035	7809
Oxidation	Abs/.1mm	ASTM D7414*		4.5	5.3	5.1
Visc @ 40°C	cSt	ASTM D7279(m)	220	215	230	225

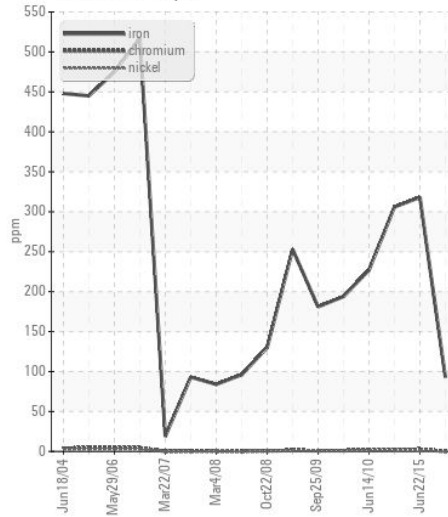
FT-IR (Direct Trend)



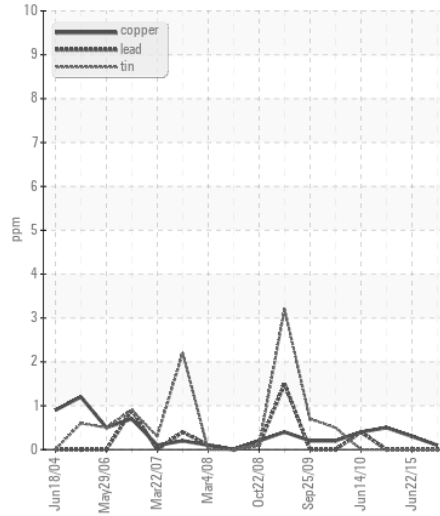
Viscosity @ 40°C



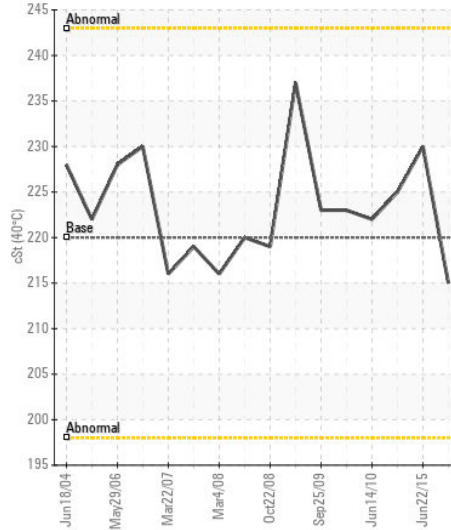
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0922067
Lab Number : 02632066
Unique Number : 5773219
Test Package : IND 1 (Additional Tests: FT-IR)

Rio Tinto - USINE VAUDREUIL Hydrate 1
 1955 BD. MELLON, EDIFICE 401
 JONQUIERE, QC
 CA G7S 4L2
 Contact: Yannick Bilodeau
 yannickbilodeau@riotinto.com
 T:
 F: (418)699-2421

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.