



CONSTRUCTION EQUIPMENT

BTBC-202393 T20-13 - DIESEL ENGINE



Sample No: VCP381773
Oil Type: TOTAL FINA RUBIA TIR 7900 15W40
Job No: BTBC-202393



SAMPLE INFORMATION

Sample Number	VCP381773	VCP380252	VCP335238	VCP275489
Sample Date	28 Sep 2023	20 Jun 2023	27 Jul 2022	30 Jan 2021
Machine Hours	580465	569519	531899	465571
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

TESSIER LTEE.
 4 RUE LAVALEE
 BAIE COMEAU, QC
 CA G4Z 1L4
 Contact: Amyot Jean-Pierre
 jean.pierre.amyot@tessier.desgagnes.com
 T: (418)296-2423
 F: (418)296-3771

OIL CONDITION

Visc @ 100°C	cSt	14.6	14.5	15.1	13.0
Oxidation (PA)	%	86	82	77	105

CONTAMINATION

Soot %	%	1.3	0.9	0.9	1.6
Nitration (PA)	%	109	98	97	112
Sulfation (PA)	%	72	67	67	79
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	12	12	7
Sodium	ppm	4	3	4	7
Potassium	ppm	1	2	3	2

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.

WEAR METALS

Iron	ppm	52	41	38	▲ 113
Copper	ppm	1	1	<1	1
Lead	ppm	6	4	3	11
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	5	3	5	4
Chromium	ppm	1	1	<1	2
Molybdenum	ppm	91	69	96	64
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	2059	1349	2290	947
Magnesium	ppm	359	890	75	1159
Zinc	ppm	1300	1269	1269	1323
Phosphorus	ppm	1108	1107	1073	1044
Barium	ppm	<1	0	0	0
Boron	ppm	31	11	33	27

Depot: TESBAI
Unique No: 5667918
Signed: Wes Davis
Report Date: 23 Oct 2023



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GRAPHS

