WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

Machine Id

1370

Component Rear Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0905433	WC0843510	WC083213
	Sample Date		Client Info		12 Oct 2023	24 Aug 2023	11 Jul 202
	Machine Age	hrs	Client Info		0	33920	53501
	Oil Age	hrs	Client Info		404	500	671
	Filter Age	hrs	Client Info		404	500	671
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	MARGINA
WEAR	Iron	ppm	ASTM D5185(m)	>100	14	28	42
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>20	<1	1	2
	Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	2	1	1
	Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
	Copper	ppm	ASTM D5185(m)	>330	5	2	6
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	2	8	4
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
	Fuel	%	ASTM D7593*	>5	7.6	<1.0	<u>^</u> 2.6
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	1.2	1.2	1.6
	Nitration	Abs/cm	ASTM D7624*	>20	10.0	10.1	13.1
	Sulfation	Abs/.1mm	ASTM D7415*	>30	24.8	28.0	33.9
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2	3	6
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)	0	1	1	2
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	54	57	57
	Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
	Magnesium	ppm	ASTM D5185(m)	1010	868	932	904
	Calcium	ppm	ASTM D5185(m)	1070	1014	1005	991
	Phosphorus	ppm	ASTM D5185(m)	1150	908	1012	922
	Zinc	ppm	ASTM D5185(m)	1270	1078	1139	1096
	Sulfur Oxidation	ppm Abs/.1mm	ASTM D5185(m) ASTM D7414*		2529 23.7	2455 29.3	2266 39.3

Visc @ 100°C cSt

ASTM D7279(m) 15.6

13.1

12.1

13.1





ISO 17025:2017 Accredited Laboratory **Laboratory**: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Sample No.**: WC0905433 **Received**: 28 Feb 2024

 vas:2017
 Lab Number
 : 02618590
 Tested
 : 29 Feb 2024

 value
 Unique Number
 : 5735700
 Diagnosed
 : 29 Feb 2024 - Wes Davis

Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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.

KINGSTON TRANSIT

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