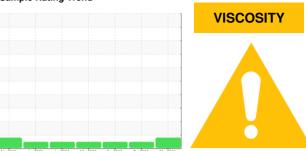


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

INTERNATIONAL 15001

Front Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0683831	WC0776231	WC0818407
Sample Date		Client Info		16 May 2024	11 Dec 2023	18 Sep 2023
Machine Age	kms	Client Info		0	367507	355039
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	10	16	24
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	8	11
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	2	<1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	95	31	13
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	22	82	82
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	450	554	37	180
Calcium	ppm	ASTM D5185(m)	3000	1401	2222	2008
Phosphorus	ppm	ASTM D5185(m)	1150	695	979	1050
Zinc	ppm	ASTM D5185(m)	1350	810	1138	1159
Sulfur	ppm	ASTM D5185(m)	4250	2442	3086	2964
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	5	6
Sodium	ppm	ASTM D5185(m)	>158	2	3	3
Potassium	ppm	ASTM D5185(m)	>20	4	4	10
Fuel	%	ASTM D7593*	>5	0.4	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	0.3	0.8
Nitration	Abs/cm	ASTM D7624*	>20	8.0	10.6	11.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	21.3	24.9



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Lab Number : 02643116 Unique Number : 5800655

: WC0683831 Received : 20 Jun 2024 **Tested** : 21 Jun 2024 Diagnosed

: 21 Jun 2024 - Kevin Marson Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI) 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.

BRITANNIA FLEET SERVICES

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