

OIL ANALYSIS REPORT

Sample Rating Trend





SPARTAN 28017/S143

Right Diesel Engine

CASTROL HYPURON 15W40 (40 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

The condition of the oil is acceptable for the time in service.

			Feb 2017	0ct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0075209	AP103304	
Sample Date		Client Info		28 Oct 2023	03 Feb 2017	
Machine Age	kms	Client Info		0	102073	
Oil Age	kms	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	0.0	
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>165	18	23	
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>2	<1	<1	
Aluminum	ppm	ASTM D5185(m)		1	5	
Lead	ppm	ASTM D5185(m)	>150	6	3	
Copper	ppm	ASTM D5185(m)		<1	19	
Tin	ppm	ASTM D5185(m)	>5	<1	<1	
Antimony	ppm	ASTM D5185(m)		0	2	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		3	42	
Barium	ppm	ASTM D5185(m)		<1	<1	
Molybdenum	ppm	ASTM D5185(m)		60	<1	
Manganese	ppm	ASTM D5185(m)		0	<1	
Magnesium	ppm	ASTM D5185(m)		931	10	
Calcium	ppm	ASTM D5185(m)		1014	2459	
Phosphorus	ppm	ASTM D5185(m)		960	962	
Zinc	ppm	ASTM D5185(m)		1153	1231	
Sulfur	ppm	ASTM D5185(m)		2416	3295	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	rs	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>35	5	5	
Sodium	ppm	ASTM D5185(m)		2	3	
Potassium	ppm	ASTM D5185(m)	>20	0	11	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>7.5	1.7	1.5	
Nitration	Abs/cm	ASTM D7624*	>20	9.3	11.2	
Sulfation	Abs/.1mm	ASTM D7024 ASTM D7415*	>30	23.6	27.8	
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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 02603433

: PC0075209

Recieved Diagnosed Diagnostician : Wes Davis : 5696518

: 15 Dec 2023

: 15 Dec 2023

Test Package : MOB 1 (Additional Tests: KV40, 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.

TORONTO FIRE SERVICES

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