

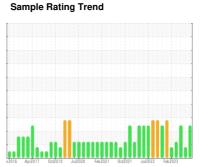
OIL ANALYSIS REPORT



NEW FLYER 0811

Component **Diesel Engine**

SAFETY-KLEEN PERFORMANCE PLUS XHD-7 15W40 (--- GAL)





DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. 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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

CE PLUS XHD-7 15W40 (GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0849871	WC0811349	WC0811412
Sample Date		Client Info		27 Aug 2023	15 Jul 2023	05 Jun 2023
Machine Age	kms	Client Info		0	0	233527
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	15	7	24
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	2
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	2	1	3
Lead	ppm	ASTM D5185(m)	>25	<1	0	2
Copper	ppm	ASTM D5185(m)	>100	<1	<1	3
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)		1	<1	3
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		55	57	62
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		870	918	816
Calcium	ppm	ASTM D5185(m)		916	952	906
Phosphorus	ppm	ASTM D5185(m)		923	1013	906
Zinc	ppm	ASTM D5185(m)		1035	1113	995
Sulfur	ppm	ASTM D5185(m)		2285	2473	2237
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	3	7
Sodium	ppm	ASTM D5185(m)		18	21	97
Potassium	ppm	ASTM D5185(m)	>20	11	12	56
Fuel	%	ASTM D7593*	>3.0	7.9	△ 3.8	10.4
Glycol	%	ASTM D7922*		0.0	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.4	0.1	0.5
Nitration	Abs/cm	ASTM D7624*	>20	10.1	6.2	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.0	20.0	25.6
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.7	16.5	27.1



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WC0849871 : 02579628

: 5632688

cSt (100°C)

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

: 31 Aug 2023 Diagnosed

: 01 Sep 2023 Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: Glycol, PercentFuel)

国10.0 2 8.0

0.0

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.

CITY OF HAMILTON

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