

# **OIL ANALYSIS REPORT**



Machine Id **NEW FLYER 1214** 

**Diesel Engine** 

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



#### **DIAGNOSIS**

#### Recommendation

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 moderate 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.

E PLUS AND-7 15W40	,					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0937173	WC0937340	WC0890902
Sample Date		Client Info		09 Jul 2024	16 May 2024	13 Feb 2024
Machine Age	kms	Client Info		872491	861962	842040
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	MARGINAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	35	31	51
Chromium	ppm	ASTM D5185(m)	>5	1	1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>15	3	2	4
Lead	ppm	ASTM D5185(m)	>25	<1	2	5
Copper	ppm	ASTM D5185(m)	>100	18	93	215
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
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)		1	<1	<1
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		56	58	57
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		892	944	926
Calcium	ppm	ASTM D5185(m)		959	1004	951
Phosphorus	ppm	ASTM D5185(m)		894	942	995
Zinc	ppm	ASTM D5185(m)		1142	1171	1137
Sulfur	ppm	ASTM D5185(m)		2182	2167	2556
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	5	7
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Fuel	%	ASTM D7593*	>3.0	<b>4.3</b>	▲ 2.2	▲ 3.6
INFRA-RED		method	limit/base	current	history1	history2
	%	method ASTM D7844*	limit/base >6	current 1.1	history1 0.8	history2 0.7
INFRA-RED	% Abs/cm					



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0937173

Lab Number : 02647272 Unique Number : 5812824

Validity of results and interpretation are based on the sample and information as supplied.

Received : 11 Jul 2024 **Tested** Diagnosed

: 12 Jul 2024

: 12 Jul 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.

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