

OIL ANALYSIS REPORT

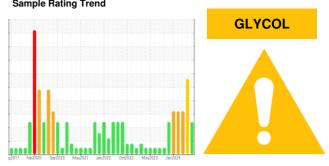
Sample Rating Trend



Machine Id **NEW FLYER 1108** mpon

Diesel Engine Fluid

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



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0917415	WC0937248	WC0917632
Sample Date		Client Info		05 Jul 2024	02 Jun 2024	02 Apr 2024
t Machine Age	kms	Client Info		879044	872141	861348
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMA
CONTAMINATIO	N	method	limit/base	current	history1	history2
v Fuel		WC Method	>3.0	<1.0	1 .9	4.6
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	7	40	29
Chromium	ppm	ASTM D5185(m)	>5	<1	2	1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>15	1	4	2
Lead	ppm	ASTM D5185(m)	>25	0	<1	<1
Copper	ppm	ASTM D5185(m)		<1	3	2
Tin	ppm	ASTM D5185(m)	>4	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	PP	method	limit/base	current	history1	history2
			in invoase			
Boron	ppm	ASTM D5185(m)		13	19	5
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		76	147	87
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)		905	860	858
Calcium	ppm	ASTM D5185(m)		942	968	928
Phosphorus	ppm	ASTM D5185(m)		1001	1044	920
Zinc	ppm	ASTM D5185(m)		1122	1088	1041
Sulfur	ppm	ASTM D5185(m)		2630	2505	2296
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	9	28	10
Sodium	ppm	ASTM D5185(m)		<u> </u>	1173	6 367
Potassium	ppm	ASTM D5185(m)	>20	<u> </u>	669	2 46
Glycol	%	ASTM D7922*		0.0	▲ 0.012	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.2	2.2	1.8
• • • •	A.L. /		0.0		4.4.4	10.0
Nitration	Abs/cm	ASTM D7624*	>20	6.4	14.4	12.8

DIAGNOSIS

Recommendation

Check for low coolant level. We recommen you drain the oil from the component if this already been done. We recommend an ear resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Water treatment chemicals present, indicat coolant leak. Test for glycol is negative.

Fluid Condition

The condition of the oil is acceptable for the service (see recommendation).



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Abs/.1mm

method

ASTM D7414*

method

limit/base

limit/base

>25

current

current

current

14.4

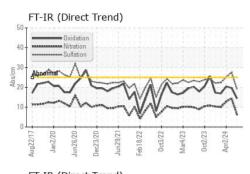
NEG

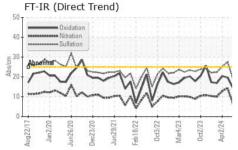
NEG

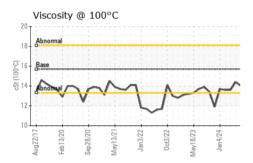
FLUID DEGRADATION

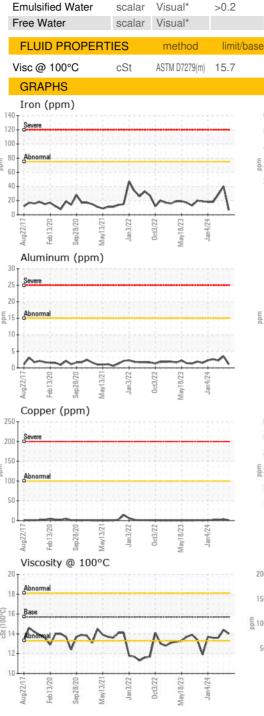
Oxidation

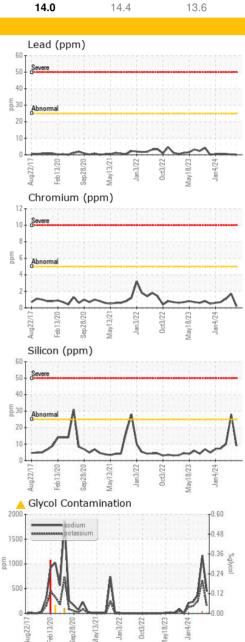
VISUAL











history1

history1

historv1

19.7

NEG

NEG

history2

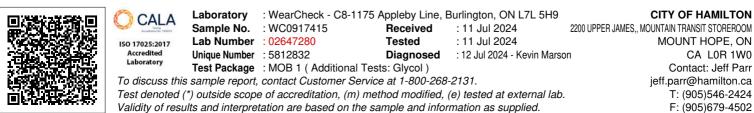
history2

historv2

20.4

NEG

NEG



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Contact/Location: Jeff Parr - HAMHAM

Page 2 of 2