

OIL ANALYSIS REPORT

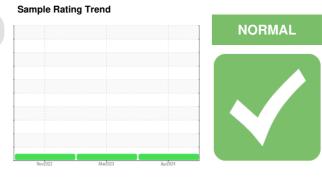
Area

EAST CRANE 170831 LUFFING DRIVE

Luffing Drive

Eluid

GEAR OIL LS 80W90 (--- GAL)



DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP	PP	PP
Sample Date		Client Info		18 Apr 2024	07 Mar 2023	21 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		4	7	1
Iron	ppm	ASTM D5185(m)	>200	27	40	35
Chromium	ppm	ASTM D5185(m)	>10	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)		0	<1	0
Lead	ppm	ASTM D5185(m)		0	0	<1
Copper	ppm	ASTM D5185(m)		<1	<1	5
Tin	ppm	ASTM D5185(m)		0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	<1	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)	150	2	21	4
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	<1	<1
-	ppm	ASTM D5185(m)	10	<1	2	<1
J	ppm	ASTM D5185(m)	70	39	15	7
Phosphorus	ppm	ASTM D5185(m)	2000	294	423	345
Zinc	ppm	ASTM D5185(m)	50	5	7	7
Sulfur	ppm	ASTM D5185(m)	20000	21183	21500	22222
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<1	<1	<1
	ppm	ASTM D5185(m)		<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
FLUID DEGRADAT	TION _	method	limit/base	current	history1	history2

0.68

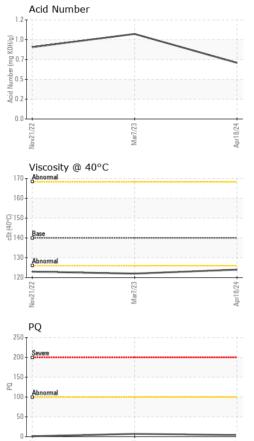
Acid Number (AN) mg KOH/g ASTM D974*

1.03

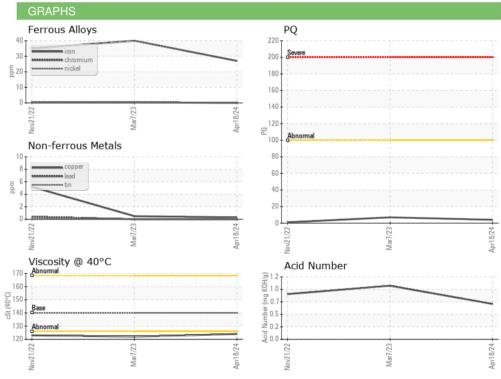
0.87



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VISUAL		method				history2
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	NONE	VLITE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	140	124	122	123
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom					(2.08 xsm)	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: PP Lab Number : 02630376 Unique Number : 5763508 Test Package : IND 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 19 Apr 2024 **Tested** : 22 Apr 2024

Diagnosed : 22 Apr 2024 - Kevin Marson

SUITE 1000,, 100 NEW GOWER STREET

CA A1C 6K3 Contact: Sam Nash samantha.m.nash@exxonmobil.com

ST.JOHNS, NL

T: F: (709)722-3766

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.

Contact/Location: Sam Nash - HIBSTJ

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