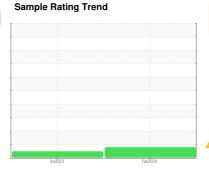


OIL ANALYSIS REPORT







DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Valve wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

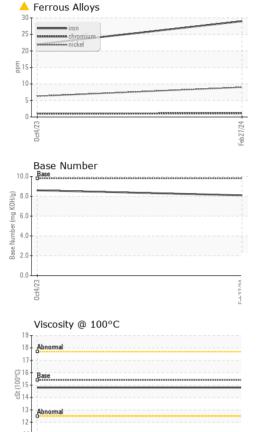
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (- GAL)		0ct2023	Feb 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103548	GFL0085329	
Sample Date		Client Info		27 Feb 2024	04 Oct 2023	
Machine Age	hrs	Client Info		20132	19971	
Dil Age	hrs	Client Info		261	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				ABNORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0	<1.0	
Vater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	29	22	
Chromium	ppm	ASTM D5185m	>20	1	1	
Nickel	ppm	ASTM D5185m	>2	<u> </u>	6	
itanium	ppm	ASTM D5185m	>2	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	11	9	
ead	ppm	ASTM D5185m	>40	4	3	
Copper	ppm	ASTM D5185m	>330	3	2	
īn	ppm	ASTM D5185m	>15	<1	1	
/anadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	4	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	66	58	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1019	1034	
Calcium	ppm	ASTM D5185m	1070	1156	1088	
Phosphorus	ppm	ASTM D5185m	1150	1013	1055	
Zinc	ppm	ASTM D5185m	1270	1258	1305	
Sulfur	ppm	ASTM D5185m	2060	3051	3028	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	17	14	
Sodium	ppm	ASTM D5185m		7	4	
Potassium	ppm	ASTM D5185m	>20	12	13	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	11.3	10.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	22.8	
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
		*******	0.5			
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	20.0	



OIL ANALYSIS REPORT

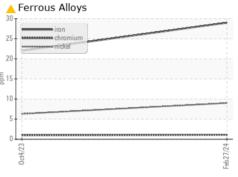


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

14.8

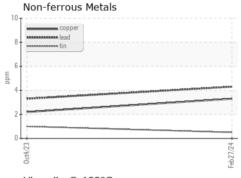
14.8

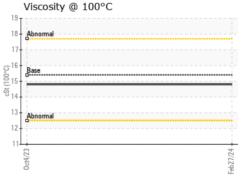
Visc @	100°C
GRA	PHS

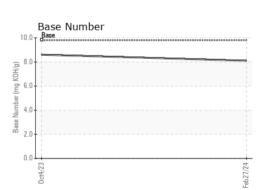


cSt

ASTM D445 15.4









Certificate L2367

Laboratory Sample No.

: GFL0103548 Lab Number : 06111950 Unique Number: 10915447 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed

: 07 Mar 2024 : 08 Mar 2024

: 10 Mar 2024 - Don Baldridge

GFL Environmental - 958A - Chillicothe Wigand 19908 N. State Rd 29

Chillicothe, IL US 61523

Contact: Bryan Link blink@gflenv.com T:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: