

OIL ANALYSIS REPORT

Sample Rating Trend

Ap/2023 Jud023 0-d2023 Jud024







DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

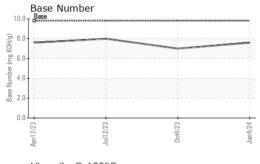
Fluid Condition

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

		Apr202	3 Jul2023	Oct2023 J:	n2024	
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092874	GFL0092860	GFL0085609
Sample Date		Client Info		04 Jan 2024	04 Oct 2023	12 Jul 2023
Machine Age	hrs	Client Info		3691	3143	2523
Oil Age	hrs	Client Info		548	620	589
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	NOITA	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	ALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	13	18	14
Chromium	ppm	ASTM D5185m	>20	.0 <1	0	<1
Nickel	ppm	ASTM D5185m	>5	1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
			>40	0	0	<1
Lead	ppm	ASTM D5185m				
Copper	ppm		>330	2	1	1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	4	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	60	59
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	984	975	867
Calcium	ppm	ASTM D5185m	1070	1136	1095	1118
Phosphorus	ppm	ASTM D5185m	1150	1025	942	954
Zinc	ppm	ASTM D5185m	1270	1272	1221	1192
Sulfur	ppm	ASTM D5185m	2060	2916	2596	3008
CONTAMINA	ANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	4
Sodium	ppm	ASTM D5185m		4	7	4
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.9	1.3	1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.3	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	21.1	20.5
FLUID DEGR	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	15.6	15.1
Base Number (BN		ASTM D2896	9.8	7.6	7.0	8.0
	, , , , , , ,					



OIL ANALYSIS REPORT

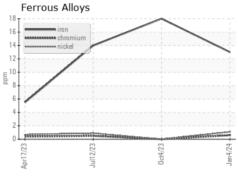


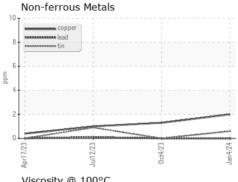
Viscosity @	0 100°C		
18 - Abnormal			
(2.001) Base			
Abnormal			
Apr17/23	Jul12/23 -	Oct4/23 -	

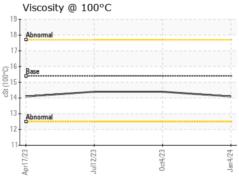
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

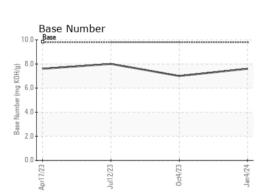
L LLOID PROPI		method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.4	14.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: GFL0092874 : 06061641 Unique Number : 10833023

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed

: 17 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 411 - Kingsford HC

1001 E Blvd Kingsford, MI US 49802

Contact: Service Manager

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)

T:

F: