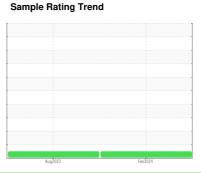


OIL ANALYSIS REPORT







DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

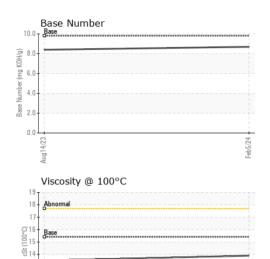
Fluid Condition

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 (4	0 QTS)		Aug2023	Feb 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110742	GFL0085621	
Sample Date		Client Info		05 Feb 2024	14 Aug 2023	
Machine Age	hrs	Client Info		11159	10818	
Oil Age	hrs	Client Info		341	600	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	4	6	
Chromium	ppm	ASTM D5185m	>20	0	<1	
Nickel	ppm	ASTM D5185m	>5	<1	<1	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	2	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	14	21	
Barium	ppm	ASTM D5185m	0	0	1	
Molybdenum	ppm	ASTM D5185m	60	58	79	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	908	1189	
Calcium	ppm	ASTM D5185m	1070	1054	1416	
Phosphorus	ppm	ASTM D5185m	1150	1058	1306	
Zinc	ppm	ASTM D5185m	1270	1242	1534	
Sulfur	ppm	ASTM D5185m	2060	3216	4153	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	
Sodium	ppm	ASTM D5185m		3	3	
Potassium	ppm	ASTM D5185m	>20	<1	1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	5.6	5.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	17.1	
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
		*****			40.0	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	13.0	



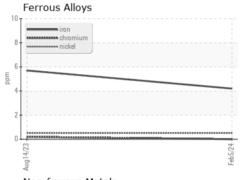
OIL ANALYSIS REPORT



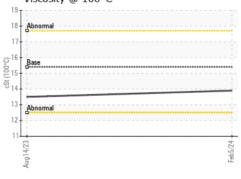
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

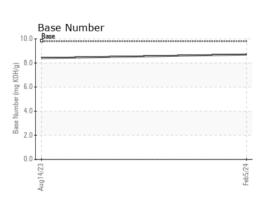
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.5	

GRAPHS



Non-ferro	us Metals	;		
cop	per			
8 - ********* tin				
6-				
E d				
2				
0 *************************************		Water Contract	*************	-
Aug14/23				Feb5/24
Viscosity (@ 100°C			







Certificate L2367

Laboratory Sample No. Lab Number : 06087972

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0110742

Received Tested Unique Number : 10875417 Diagnosed

: 13 Feb 2024 : 14 Feb 2024 : 14 Feb 2024 - 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: