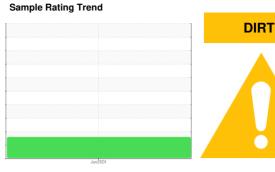


# **OIL ANALYSIS REPORT**





### **DIAGNOSIS**

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal.

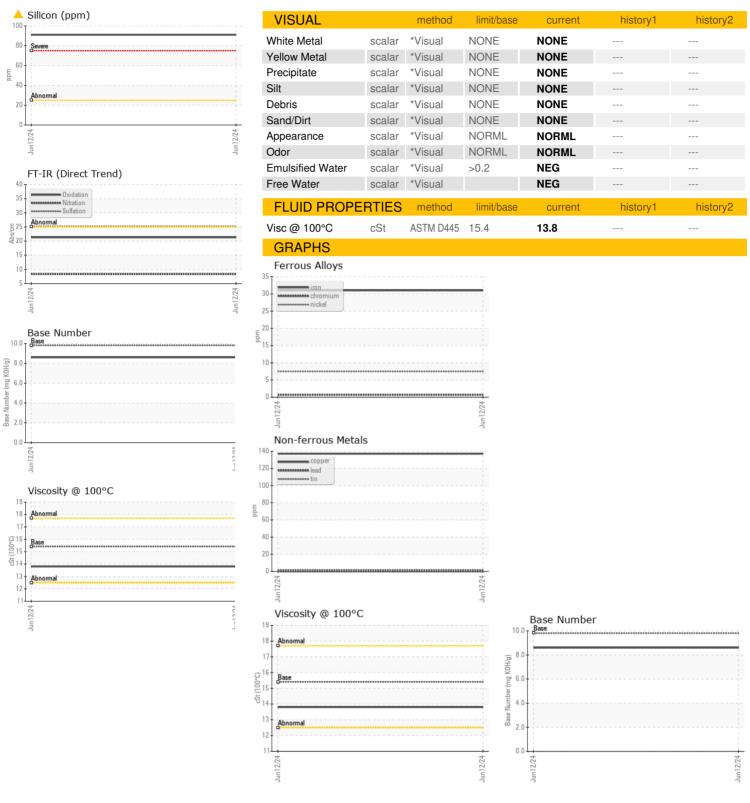
### **Fluid Condition**

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

N SHP 15W40 (	- GAL)			Jun2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116046		
Sample Date		Client Info		12 Jun 2024		
Machine Age	hrs	Client Info		38		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Nater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	31		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	8		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	1		
Aluminum	ppm	ASTM D5185m	>20	9		
_ead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	137		
Γin	ppm	ASTM D5185m	>15	2		
√anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	286		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	106		
Manganese	ppm	ASTM D5185m	0	4		
Magnesium	ppm	ASTM D5185m	1010	619		
Calcium	ppm	ASTM D5185m	1070	1442		
Phosphorus	ppm	ASTM D5185m	1150	732		
Zinc	ppm	ASTM D5185m	1270	810		
Sulfur	ppm	ASTM D5185m	2060	2732		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u> </u>		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	25		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3		
Vitration	Abs/cm	*ASTM D7624	>20	8.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6		



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Lab Number : 06211261 Unique Number : 11084125 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116046

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

Received : 17 Jun 2024 **Tested** 

: 18 Jun 2024 : 18 Jun 2024 - Angela Borella Diagnosed

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

US 49707 Contact: DYLAN TOLAN dylan.tolan@gflenv.com T: (989)854-7203

GFL Environmental - 641 - Alpena

1241 KING SETTLEMENT RD

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

ALPENA, MI