

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**NORMAL** 



# WESTERN STAR 126061-SW8605

Component

**Diesel Engine** 

**MOBIL DELVAC ELITE 15W40 (--- GAL)** 

### 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 acceptable for the time in service.

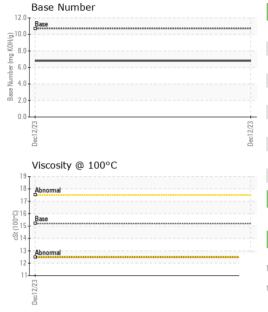
		,		Dec2023		
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095492		
Sample Date		Client Info		12 Dec 2023		
Machine Age	hrs	Client Info		18354		
Oil Age	hrs	Client Info		500		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	12		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	<1		
Γitanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	4		
_ead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	1		
Γin	ppm	ASTM D5185m	>15	0		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		124		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		124		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		638		
Calcium	ppm	ASTM D5185m		1204		
Phosphorus	ppm	ASTM D5185m		647		
Zinc	ppm	ASTM D5185m		794		
Sulfur	ppm	ASTM D5185m		3540		
CONTAMINANT	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	8.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6		
Dogo Number (DAI)	I/OII/-	ACTM DOCCO	10.7	0.0		

6.8

Base Number (BN) mg KOH/g ASTM D2896 10.7



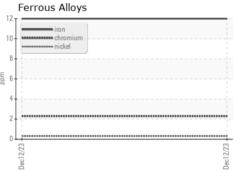
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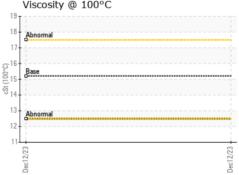
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML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

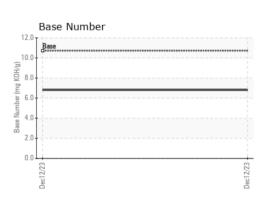
I LOID I HOI L	ITTLO				
Visc @ 100°C	cSt	ASTM D445	15.2	12.5	 

### **GRAPHS**



	Non-ferrous Metals	5	
	8 - copper		
Ε	6		
mdd	4		
	2-		
	0	***************************************	······································
	Dec12/23		Dec12/23
	Viscosity @ 100°C		







Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10792582

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06037353

: GFL0095492 Test Package : FLEET

Recieved : 18 Dec 2023 Diagnosed Diagnostician : Sean Felton

: 20 Dec 2023

GFL Environmental - 981 - Port Arthur Hauling 1000 S Business Park Dr Port Arthur, TX

US 77640 Contact: MICHAEL KAY mkay@gflenv.com T: (336)660-9331

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)