

### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# WESTERN STAR 126061-SW8605

**Diesel Engine** 

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

#### 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.

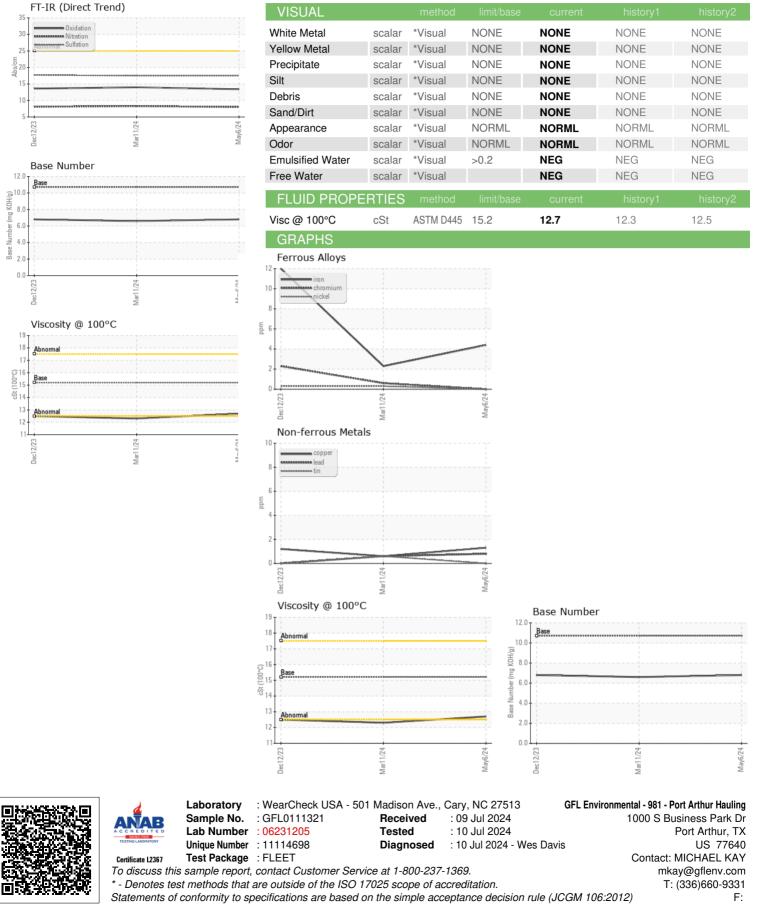
#### Fluid Condition

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

SAMPLE INFORMATION method limit/base current	history1	history2
Sample Number Client Info GFL0111321	GFL0095466	GFL0095492
Sample Date Client Info 06 May 2024	11 Mar 2024	12 Dec 2023
Machine Age hrs Client Info 19154	18771	18354
Oil Age hrs Client Info 383	0	500
Oil Changed Client Info Changed	Changed	Changed
Sample Status NORMAL	NORMAL	NORMAL
CONTAMINATION method limit/base current	history1	history2
Fuel WC Method >5 <1.0	<1.0	<1.0
Water WC Method >0.2 NEG	NEG	NEG
Glycol WC Method NEG	NEG	NEG
	history1	history2
Iron ppm ASTM D5185m >100 4	2	12
Chromium ppm ASTM D5185m >20 0	<1	2
Nickel ppm ASTM D5185m >4 0	<1	<1
Titanium ppm ASTM D5185m 0	<1	<1
Silver ppm ASTM D5185m >3 0	0	0
Aluminum ppm ASTM D5185m >20 3	3	4
Lead ppm ASTM D5185m >40 <1	<1	0
Copper ppm ASTM D5185m >330 1	<1	1
Tin ppm ASTM D5185m >15 0	<1	0
Vanadium ppm ASTM D5185m 0	<1	<1
Cadmium ppm ASTM D5185m 0	<1	<1
ADDITIVES method limit/base current	history1	history2
Boron ppm ASTM D5185m 115	125	124
Barium ppm ASTM D5185m 0	0	0
MolybdenumppmASTM D5185m123	133	124
Manganese ppm ASTM D5185m <1	<1	<1
MagnesiumppmASTM D5185m661	700	638
Calcium ppm ASTM D5185m 1335	1303	1204
Phosphorus ppm ASTM D5185m 809		
	738	647
Zinc ppm ASTM D5185m 877	738 869	794
Sulfur ppm ASTM D5185m 4167		
	869	794
Sulfur ppm ASTM D5185m 4167	869 3385	794 3540
Sulfur ppm ASTM D5185m 4167   CONTAMINANTS method limit/base current	869 3385 history1	794 3540 history2
Sulfur ppm ASTM D5185m 4167   CONTAMINANTS method limit/base current   Silicon ppm ASTM D5185m >25 4	869 3385 history1 5	794 3540 history2 12
SulfurppmASTM D5185m4167CONTAMINANTSmethodlimit/basecurrentSiliconppmASTM D5185m>254SodiumppmASTM D5185m3	869 3385 history1 5 <1	794 3540 history2 12 0
SulfurppmASTM D5185m4167CONTAMINANTSmethodlimit/basecurrentSiliconppmASTM D5185m>254SodiumppmASTM D5185m3PotassiumppmASTM D5185m>202	869 3385 history1 5 <1 2	794 3540 history2 12 0 2
SulfurppmASTM D5185m4167CONTAMINANTSmethodlimit/basecurrentSiliconppmASTM D5185m>254SodiumppmASTM D5185m3PotassiumppmASTM D5185m>202INFRA-REDmethodlimit/basecurrent	869 3385 history1 5 <1 2 2 history1	794 3540 history2 12 0 2 2 history2
SulfurppmASTM D5185m4167CONTAMINANTSmethodlimit/basecurrentSiliconppmASTM D5185m>254SodiumppmASTM D5185m33PotassiumppmASTM D5185m>202INFRA-REDmethodlimit/basecurrentSoot %%*ASTM D7844>30.2	869 3385 history1 5 <1 2 2 history1 0.3	794 3540 history2 12 0 2 kistory2 0.3
SulfurppmASTM D5185m4167CONTAMINANTSmethodlimit/basecurrentSiliconppmASTM D5185m>254SodiumppmASTM D5185m33PotassiumppmASTM D5185m>202INFRA-REDmethodlimit/basecurrentSoot %%*ASTM D7844>30.2NitrationAbs/cm*ASTM D7624>208.0	869 3385 history1 5 <1 2 2 history1 0.3 8.3	794 3540 history2 12 0 2 history2 0.3 8.1
SulfurppmASTM D5185m4167CONTAMINANTSmethodlimit/basecurrentSiliconppmASTM D5185m>254SodiumppmASTM D5185m>202PotassiumppmASTM D5185m>202INFRA-REDmethodlimit/basecurrentSoot %%*ASTM D7844>30.2NitrationAbs/cm*ASTM D7624>208.0SulfationAbs/.1mm*ASTM D7415>3017.5	869 3385 history1 5 <1 2 history1 0.3 8.3 17.5	794 3540 history2 12 0 2 history2 0.3 8.1 17.7



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