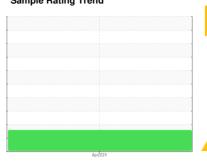


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 813109

1 Diesel Engine

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.

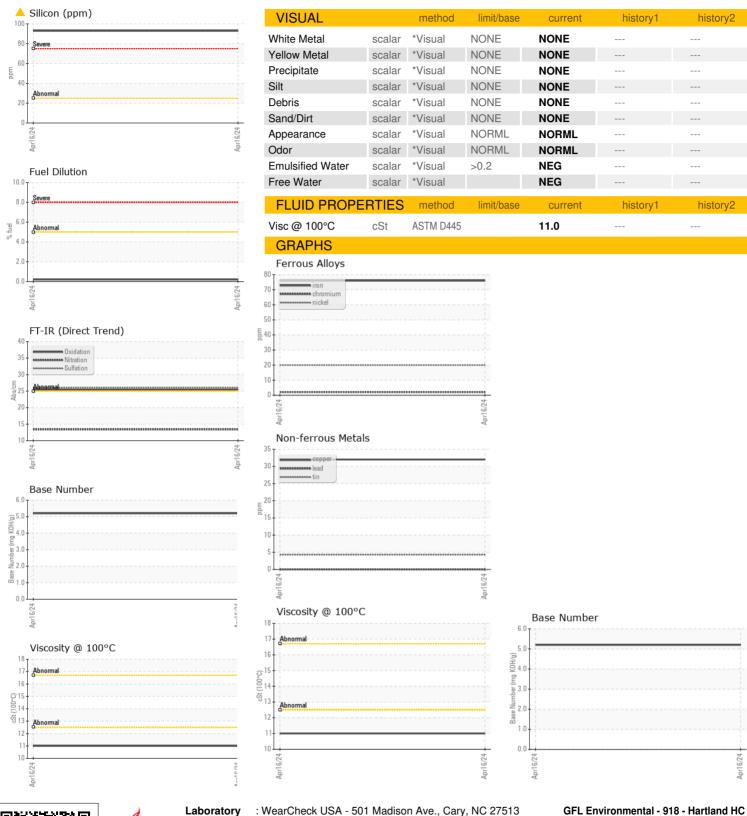
Fluid Condition

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.

				Apr2024		
OAMBLE INCODE	MATION		11 11 11			
SAMPLE INFORI	VIATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112997		
Sample Date		Client Info		16 Apr 2024		
Machine Age	hrs	Client Info		1181		
Oil Age	hrs	Client Info		1181		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	76		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	20		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	4		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	32		
Tin	ppm	ASTM D5185m	>15	4		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		53		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		123		
Manganese	ppm	ASTM D5185m		7		
Magnesium	ppm	ASTM D5185m		776		
Calcium	ppm	ASTM D5185m		1521		
Phosphorus	ppm	ASTM D5185m		766		
Zinc	ppm	ASTM D5185m		985		
Sulfur	ppm	ASTM D5185m		2506		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	93		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	10		
Fuel	%	ASTM D3524	>5	0.2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1		
Nitration	Abs/cm	*ASTM D7624	>20	13.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.1		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
				0011.0110	inotory .	/
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896		25.4 5.2		



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06158358

: GFL0112997 Unique Number : 10993781

Received **Tested**

: 23 Apr 2024 : 26 Apr 2024 Diagnosed

: 26 Apr 2024 - Don Baldridge

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

630 E Industrial Drive Hartland, WI US 53029

Contact: David McCall david.mccall@gflenv.com T: (262)369-3069

 st - 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)

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