

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 413028 Component **Diesel Engine**

DIAGNOSIS	SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0103469	GFL0103488	GFL0103481
corrective action is recommended at this time.	Sample Date		Client Info		10 Jan 2024	19 Dec 2023	29 Nov 2023
ample at the next service interval to monitor.	Machine Age	hrs	Client Info		2875	2743	2611
ear	Oil Age	hrs	Client Info		264	132	1127
ust valve wear is indicated. All other	Oil Changed		Client Info		N/A	Not Changd	Changed
oonent wear rates are normal.	Sample Status				ABNORMAL	NORMAL	NORMAL
amination e is no indication of any contamination in the	CONTAMINA	TION	method	limit/base	current	history1	history2
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
I Condition	Water		WC Method	>0.2	NEG	NEG	NEG
BN result indicates that there is suitable	Glycol		WC Method		NEG	NEG	NEG
inity remaining in the oil. The condition of the suitable for further service.	WEAR META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	11	7	14
	Chromium	ppm	ASTM D5185m	>20	<1	<1	1
	Nickel	ppm	ASTM D5185m	>5	8	6	2
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	2	4
	Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m	>330	5	2	15
	Tin	ppm	ASTM D5185m	>15	<1	0	1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	4	3	2
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	63	62	64
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	976	899	985
	Calcium	ppm	ASTM D5185m	1070	1074	1029	1048
	Phosphorus	ppm	ASTM D5185m	1150	1014	899	1020
	Zinc	ppm	ASTM D5185m	1270	1258	1160	1270
	Sulfur	ppm	ASTM D5185m	2060	3113	3191	2598
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	4	7
	Sodium	ppm	ASTM D5185m		2	1	3
	Potassium	ppm	ASTM D5185m	>20	5	4	9
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	5.8	8.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	17.6	19.3
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	13.9	15.3

Base Number (BN) mg KOH/g ASTM D2896 9.8

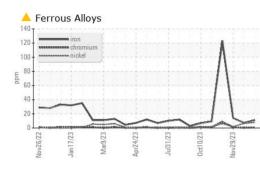
8.7

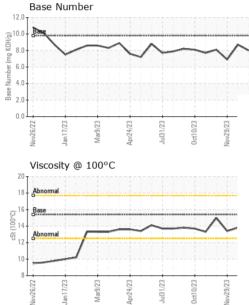
6.9

8.0



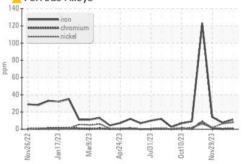
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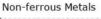


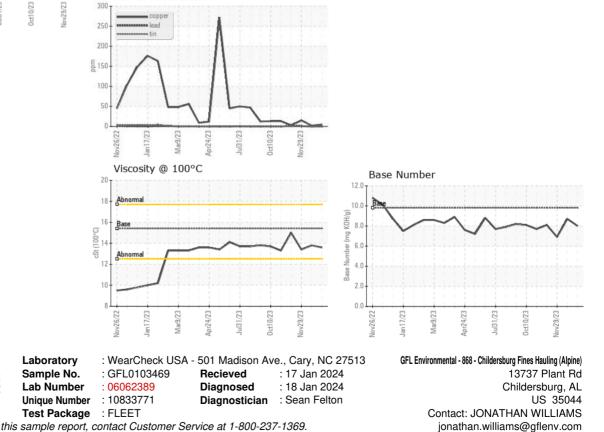


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	13.4
GRAPHS						

Ferrous Alloys







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.

Certificate L2367

Submitted By: see also GFL868 - Chelsea Bryan

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