

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 727016-596

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

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.

		Aug2020	Apr2021 Nov2021	0ct2022 Mar2023 D	ac2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0077768	GFL0077771	GFL0065072
Sample Date		Client Info		27 Dec 2023	18 Dec 2023	30 Aug 2023
Machine Age	mls	Client Info		237345	236652	227826
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	11	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	16	17	6
Lead	ppm	ASTM D5185m	>40	3	3	1
Copper	ppm	ASTM D5185m	>330	4	1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	3	2	<1
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	61	60	59
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	981	896	985
Calcium	ppm	ASTM D5185m	3000	1139	1056	1117
Phosphorus	ppm	ASTM D5185m	1150	1037	920	1030
Zinc	ppm	ASTM D5185m	1350	1282	1184	1274
Sulfur	ppm	ASTM D5185m	4250	3111	3053	3617
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	8	4
Sodium	ppm	ASTM D5185m	>158	<1	0	2
Potassium	ppm	ASTM D5185m	>20	0	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4	1.2	1.1
Nitration	Abs/cm	*ASTM D7624	>20	12.8	11.6	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	21.2	20.2
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.6	19.2	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.4	7.5	9.5

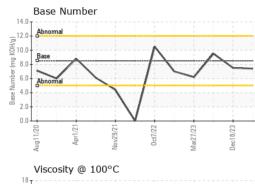


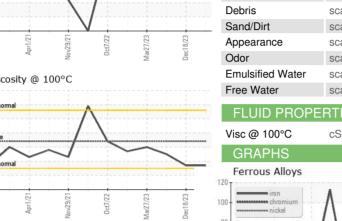
1 16 cSt (100°C) Ba

13 12

Aug11/20

OIL ANALYSIS REPORT





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12

11-

Unique Number : 10810092

Laboratory

Sample No.

Lab Number

Aug11/20

Apr1/21.

: GFL0077768

: 06049484

White Metal		method	limit/base	current	history1	history2
	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
	scalar	*Visual	NONE	NONE	NONE	NONE
	scalar	*Visual	NONE	NONE	NONE	NONE
	scalar	*Visual	NORML	NORML	NORML	NORML
	scalar	*Visual	NORML	NORML	NORML	NORML
	scalar	*Visual	>0.2	NEG	NEG	NEG
	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	RTIES	method	limit/base	current	history1	history2
	cSt	ASTM D445	14.4	12.7	12.7	13.5
GRAPHS						
Ferrous Alloys						
	L					
ug11/20	0ct7/22	lar27/23	74			
Nov-ferrous Metals		Mar27/23				
IZ/EZ/004 Non-ferrous Metals			1			
IZ/Lide Vor ferrous Metals		Mai 2/1/23	1	Base Number		
IZ/L/DP IZ/L/DP Non-ferrous Metals IZ/L/DP Non-ferrous Metals IZ/L/DP Non-ferrous Metals IZ/L/DP Viscosity @ 100°C			1	Base Number		
IZ/L/DPW Non-ferrous Metals			14.0	Base Number		
IZ/Linky Non-ferrous Metals			14.0	Abnormal	Λ	
IZ/L/DPW Non-ferrous Metals			14.0	1 3555-		

Base N 4 (

Dec18/23.

: 02 Jan 2024

: 04 Jan 2024

2.0

0.0

Aug11/20 -

Apr1/21,

Vov29/21.



Test Package : FLEET Certificate L2367 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)

Vov29/21

0ct7/22

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

Recieved

Diagnosed

Mar27/23

Diagnostician : Wes Davis

0ct7/22

GFL Environmental - 650 - West Point Hauling

Dec18/23 -

West Point, VA

Contact: Jason Smith

jasonsmith@gflenv.com

US 23181

T:

F:

Mar27/23

7825 Parham Landing Road