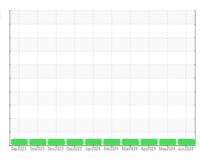


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
2103
Component
Diesel Engine

DIESEL ENGINE OIL SAE 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

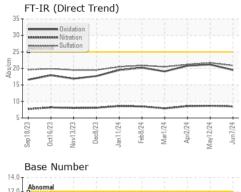
Fluid Condition

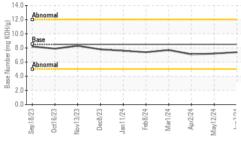
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

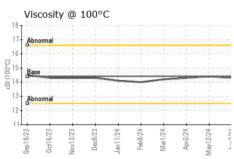
		Sep 2023 Oct2	023 Nov2023 Dec2023 Jan2	024 Feb2024 Mar2024 Apr2024 May	2024 Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0897851	WC0897905	WC0893958
Sample Date		Client Info		07 Jun 2024	12 May 2024	02 Apr 2024
Machine Age	mls	Client Info		174764	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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 METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	5	6	5
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	<1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	1	<1
Tin	ppm	ASTM D5185m	>15	0	1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<1	0	<1
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	62	59	56
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	450	1081	927	915
Calcium	ppm	ASTM D5185m	3000	1207	1126	1022
Phosphorus	ppm	ASTM D5185m	1150	1094	1048	970
Zinc	ppm	ASTM D5185m	1350	1424	1232	1154
Sulfur	ppm	ASTM D5185m	4250	3908	3408	3306
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		5	8	6
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m		2	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.7	8.6
Sulfation	Abs/.1mm	*ASTM D7415		20.9	21.7	21.2
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	21.2	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.4	7.2	7.1



OIL ANALYSIS REPORT





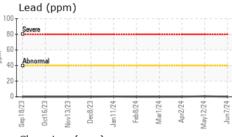


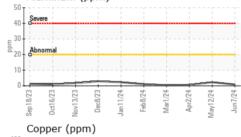
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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 PROPERT	ΓIFS	method	limit/hase	current	history1	history2

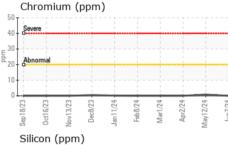
I LOID I HOI LIT	TILO					
Visc @ 100°C	cSt	ASTM D445	14.4	14.3	14.4	14.3

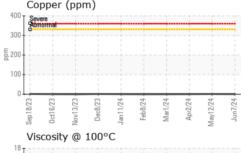
Seve	ere	- 1						- !	
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Abn	ormal	-	1	-	-		- 1		
ų.									
Z3	23	23	23	24	24	24	24	24	
Sep18/23	Oct16/23	Nov13/23	Dec8/23	Jan11/24	Feb8/24	Mar1/24	Apr2/24	May12/24	200

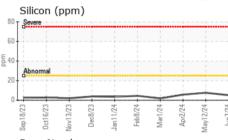
GRAPHS

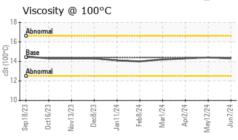


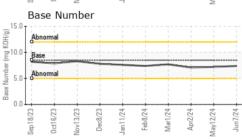
















Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0897851 Lab Number : 06219136

Unique Number : 11097333

Received **Tested** Diagnosed

: 24 Jun 2024 : 25 Jun 2024 : 25 Jun 2024 - Wes Davis

GO DURHAM - RAPT 1903 FAYETTEVILLE ST DURHAM, NC

Robert.losiniecki@ratpdev.com

US 27701 Contact: Robert Iosiniecki

Test Package : MOB 1 (Additional Tests: TBN) Certificate 12367 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)

Report Id: GODDUR [WUSCAR] 06219136 (Generated: 06/25/2024 16:31:04) Rev: 1

Contact/Location: Robert Iosiniecki - GODDUR

T:

F: