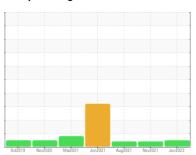


# **OIL ANALYSIS REPORT**

## **Sample Rating Trend**







# Machine Id 9915847 Component

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 10W30 (--- 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

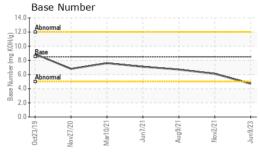
# **Fluid Condition**

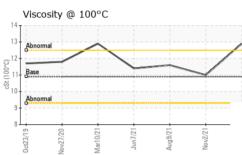
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Oct2019	Nov2020 Mar2021	Jun2021 Aug2021 Nov2021	Jun 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL05904087	IL05390524	IL05330594
Sample Date		Client Info		09 Jun 2023	02 Nov 2021	09 Aug 2021
Machine Age	mls	Client Info		580942	0	334717
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	59	64	35
Chromium	ppm	ASTM D5185m	>20	2	4	2
Nickel	ppm	ASTM D5185m	>4	0	1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	8	7
Lead	ppm	ASTM D5185m	>40	7	13	2
Copper	ppm	ASTM D5185m	>330	2	<1	1
Tin	ppm	ASTM D5185m	>15	<1	2	<1
Antimony	ppm	ASTM D5185m			3	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	16	22	36
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	51	33	8
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	450	564	657	664
Calcium	ppm	ASTM D5185m	3000	1853	1635	1304
Phosphorus	ppm	ASTM D5185m	1150	789	778	683
Zinc	ppm	ASTM D5185m	1350	980	919	805
Sulfur	ppm	ASTM D5185m	4250	2702	2498	2326
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	16	9
Sodium	ppm	ASTM D5185m		4	3	3
Potassium	ppm	ASTM D5185m	>20	3	10	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	14.4	10.3	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.2	22.4	20.4
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.5	19.6	13.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.7	6.1	6.7
. ,	0					



# **OIL ANALYSIS REPORT**

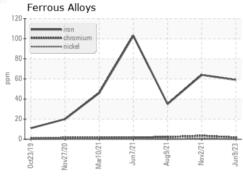


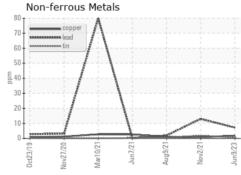


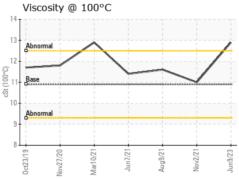
White Metal scal	ar *Visual	NONE			
		NONE	NONE	NONE	NONE
Yellow Metal sca	ar *Visual	NONE	NONE	NONE	NONE
Precipitate sca	ar *Visual	NONE	NONE	NONE	NONE
Silt sca	ar *Visual	NONE	NONE	NONE	NONE
Debris sca	ar *Visual	NONE	NONE	NONE	NONE
Sand/Dirt sca	ar *Visual	NONE	NONE	NONE	NONE
Appearance scal	ar *Visual	NORML	NORML	NORML	NORML
Odor sca	ar *Visual	NORML	NORML	NORML	NORML
Emulsified Water sca	ar *Visual	>0.2	NEG	NEG	NEG
Free Water sca	ar *Visual		NEG	NEG	NEG

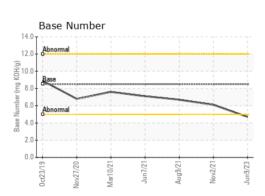
FLUID PHOPENTIES		method			riistory i	riistoryz	
Visc @ 100°C	cSt	ASTM D445	10.9	12.9	<u> </u>	<u> </u>	

## **GRAPHS**













Laboratory Sample No. Lab Number Unique Number : 10565443

: IL05904087 : 05904087 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jul 2023 Diagnosed : 26 Jul 2023 Diagnostician : Doug Bogart

**IDEALEASE-NORCROSS** 4571 NORTH BUFORD HWY NORCROSS, GA US 30071-2808 Contact: RICK MARKS

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)

F: (770)300-0614