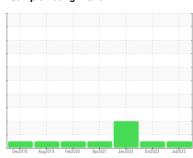


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **6912089**

Component **Diesel Engine**

Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

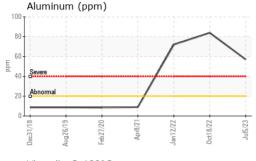
Fluid Condition

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

		Dec2018	Aug2019 Feb2020	Apr2021 Jan2022 Oct2022	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL05900956	IL05679785	IL05447395
Sample Date		Client Info		05 Jul 2023	18 Oct 2022	12 Jan 2022
Machine Age	mls	Client Info		131355	118432	99623
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATIO	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	58	74	127
Chromium	ppm	ASTM D5185m	>20	1	2	2
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	57	84	<u> </u>
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	2	2	3
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	31	24	15
Barium	ppm	ASTM D5185m	10	0	<1	<1
Molybdenum	ppm	ASTM D5185m	100	70	67	92
Manganese	ppm	ASTM D5185m		1	1	2
Magnesium	ppm	ASTM D5185m	450	826	768	697
Calcium	ppm	ASTM D5185m	3000	1349	1327	1291
Phosphorus	ppm	ASTM D5185m	1150	760	737	745
Zinc	ppm	ASTM D5185m	1350	981	936	996
Sulfur	ppm	ASTM D5185m	4250	2973	2576	2385
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	10	14
Sodium	ppm	ASTM D5185m	>158	4	2	4
Potassium	ppm	ASTM D5185m	>20	73	183	<u>▲</u> 164
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	8.0	1.1	1.5
Nitration	Abs/cm	*ASTM D7624	>20	13.9	16.1	15.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	29.5	29.7
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.4	29.0	28.4
Base Number (BN)	mg KOH/g	ASTM D2896		6.6	6.4	6



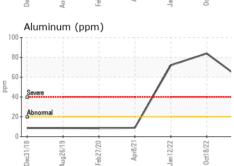
OIL ANALYSIS REPORT

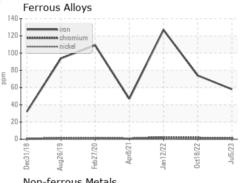


VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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

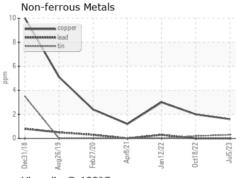
17- Abnorm	ıal				
16 -					
15 - Base		 			
14					
13 - Abnorm	nal		\		
12		 			
11					
		Apr8/21-	2 -	2 -	

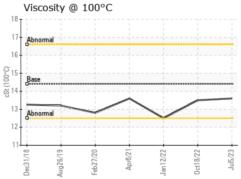


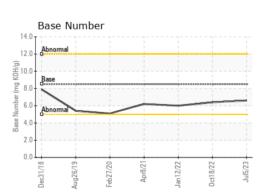




GRAPHS











Certificate L2367

Laboratory

Sample No. Lab Number Unique Number Test Package : FLEET

: IL05900956 : 05900956 : 10562312

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2023 : 18 Jul 2023 Diagnosed Diagnostician : Wes Davis

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) TAMPA IDEALEASE 5951 ORIENT ROAD TAMPA, FL

US 33610-9565 Contact: Russ Cook russcook@idealease.com

T: (813)626-9285 F: (844)270-1356