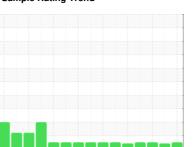


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



**NORMAL** 



# FSP137688 (S/N 3HAMMMMN7KL056814)

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 15W40 (18 QTS)** 

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

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the

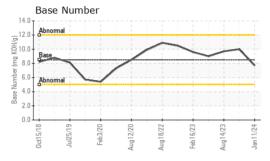
## **Fluid Condition**

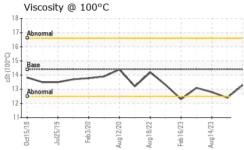
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Occid 16 Jud 17 Feb. 2018 Aug 1822 Hab 2022 Aug 1823 Jan 2021						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0875713	WC0875854	WC0787816
Sample Date		Client Info		11 Jan 2024	19 Nov 2023	14 Aug 2023
Machine Age	mls	Client Info		0	0	122473
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0	1.8	<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	16	18	16
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		9	13	9
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m		<1	3	1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	398	8	9
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	100	80	90	72
Manganese	ppm	ASTM D5185m	450	<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	453	1001	1018
Calcium	ppm	ASTM D5185m ASTM D5185m	3000 1150	1247	1152	1177 1133
Phosphorus Zinc	ppm	ASTM D5185m	1350	1043 1219	1115 1338	1350
Sulfur	ppm	ASTM D5185m		3161	3531	4126
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25 >158	4 <1	6	5 1
Potassium	ppm ppm	ASTM D5185m	>156	2	6	3
	ррпп					
INFRA-RED	0/	method	limit/base	current	history1	history2
Soot %	% Abc/om	*ASTM D7844	>3	0.3	0.5	0.5
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	6.2 20.8	8.3 20.1	7.6 19.4
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	16.4	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.7	10.0	9.7



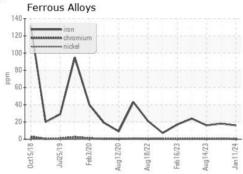
## **OIL ANALYSIS REPORT**

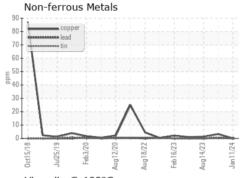


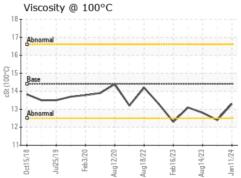


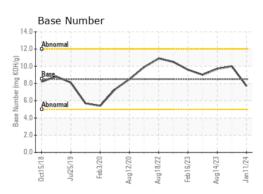
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PHOPENTIES		method			riistory i	History
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	<b>12.4</b>	12.8













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10850310

: 06073633

: WC0875713 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024 : 30 Jan 2024 Diagnosed Diagnostician : Wes Davis

ORLANDO, FL US 32809 Contact: CRAIG EVANS evans\_craig@sbcglobal.net T:

8801 EXCHANGE DRVIE

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: FREORL [WUSCAR] 06073633 (Generated: 01/30/2024 15:58:09) Rev: 1

Contact/Location: CRAIG EVANS - FREORL

F:

**FRESHPOINT**