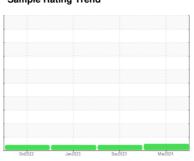


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id FSP141550

Component

Diesel Engine

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

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

There is no indication of any contamination in the

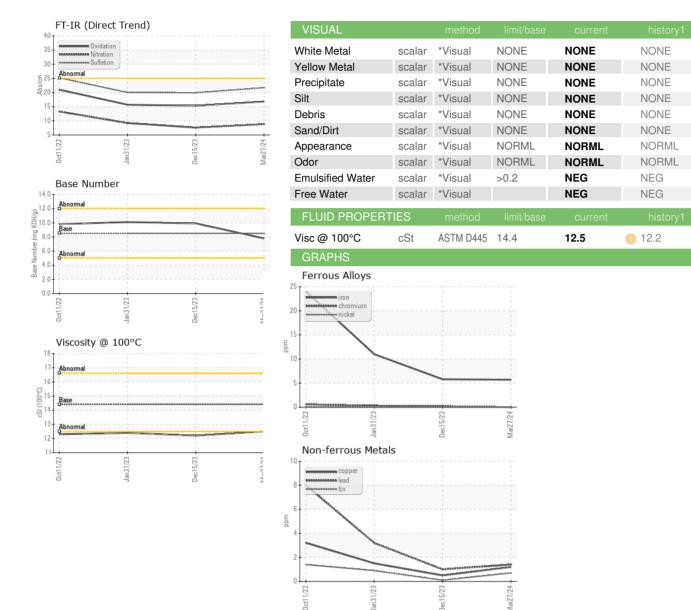
Fluid Condition

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

Oc2022 Jmi2023 Oc2023 Mar2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0883184	WC0883306	WC0722871
Sample Date		Client Info		27 Mar 2024	15 Dec 2023	31 Jan 2023
Machine Age	mls	Client Info		129871	122853	99571
Oil Age	mls	Client Info		15000	5000	12000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION
CONTAMINATION	١	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	6	6	11
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	4	2	3
Lead	ppm	ASTM D5185m	>40	1	1	3
Copper	ppm	ASTM D5185m	>330	1	<1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	302	6	<1
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	88	103	64
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	491	941	938
Calcium	ppm	ASTM D5185m	3000	1379	1082	1115
Phosphorus	ppm	ASTM D5185m	1150	1116	949	1027
Zinc Sulfur	ppm	ASTM D5185m	1350	1243	1212	1222
	ppm	ASTM D5185m	4250	3823	3529	3855
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m	>158	5	4	2
Potassium	ppm	ASTM D5185m	>20	5	12	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.6	0.8
Nitration	Abs/cm	*ASTM D7624	>20	8.8	7.6	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	19.9	20.0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	15.3	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.8	9.9	10.1



OIL ANALYSIS REPORT



Viscosity @ 100°C





Certificate 12367

Laboratory Sample No.

: WC0883184 Lab Number : 06153706 Unique Number : 10983784 Test Package : FLEET

Oct11/22

To discuss this sample report, contact Customer Service at 1-800-237-1369.

:St (100°C)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Apr 2024 **Tested** : 19 Apr 2024

Diagnosed : 19 Apr 2024 - Wes Davis

ORLANDO, FL Contact: CRAIG EVANS evans_craig@sbcglobal.net

Base Number

12.0 (mg KOH/g) 0.8

6.0 Base 2.0 0.0

Oct11/22

* - 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] 06153706 (Generated: 04/19/2024 17:38:53) Rev: 1

Contact/Location: CRAIG EVANS - FREORL

FRESHPOINT

US 32809

T:

F:

8801 EXCHANGE DRVIE

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.4