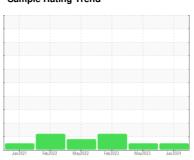


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



FSP135888

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 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.

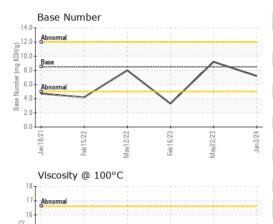
		Jan 2021	Feb 2022 May 2022	? Feb2023 May2023	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0875825	WC0717630	WC0717872
Sample Date		Client Info		03 Jan 2024	22 May 2023	16 Feb 2023
Machine Age	mls	Client Info		0	151080	145703
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
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	10	9	48
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	9
Lead	ppm	ASTM D5185m	>40	5	<1	15
Copper	ppm	ASTM D5185m	>330	2	2	9
Tin	ppm	ASTM D5185m	>15	<1	<1	3
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	12	<1	<1
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	70	59	55
Manganese	ppm	ASTM D5185m		<1	0	2
Magnesium	ppm	ASTM D5185m	450	791	939	853
Calcium	ppm	ASTM D5185m	3000	1278	1105	1108
Phosphorus	ppm	ASTM D5185m	1150	992	1010	889
Zinc	ppm	ASTM D5185m	1350	1211	1227	1169
Sulfur	ppm	ASTM D5185m	4250	3077	3846	2749
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	2	5
Sodium	ppm	ASTM D5185m	>158	4	4	6
Potassium	ppm	ASTM D5185m	>20	3	3	13
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.4	13.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	20.5	30.3
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	16.3	30.1
Base Number (BN)	mg KOH/g	ASTM D2896		7.2	9.2	△ 3.3
(214)						



12

Feb15/22

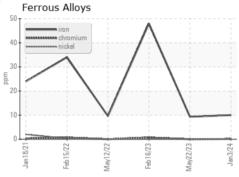
OIL ANALYSIS REPORT

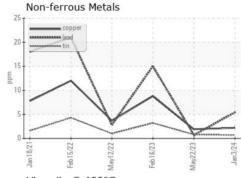


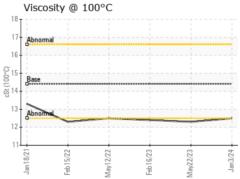
Feb16/23

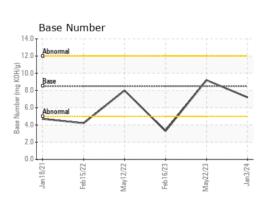
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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 PROPER	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	12.5	12.3	12.4













Certificate L2367

Laboratory Sample No. Test Package : FLEET

Lab Number Unique Number : 10833171

: WC0875825 : 06061789

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed : 18 Jan 2024 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)

FRESHPOINT

8801 EXCHANGE DRVIE ORLANDO, FL US 32809

Contact: CRAIG EVANS

evans_craig@sbcglobal.net T:

F:

Contact/Location: CRAIG EVANS - FREORL