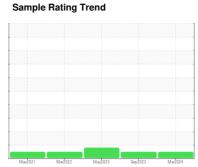


OIL ANALYSIS REPORT



NORMAL



Machine Id FSP141547

Component

Diesel Engine

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

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.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

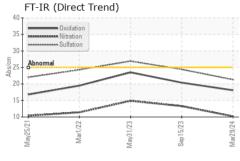
Fluid Condition

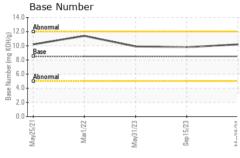
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

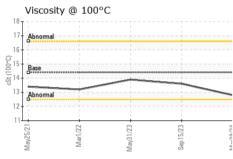
		May2021	Mar2022	May2023 Sep2023	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0912565	WC0840912	WC0811029
Sample Date		Client Info		29 Mar 2024	15 Sep 2023	31 May 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
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	13	22	34
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	<1	0	0
Aluminum	ppm	ASTM D5185m		4	6	△ 23
Lead	ppm	ASTM D5185m	>40	4	7	11
Copper	ppm	ASTM D5185m		2	2	1
Tin	ppm	ASTM D5185m	>15	1	2	2
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	<1	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	100	61	64	70
Manganese	ppm	ASTM D5185m	450	<1	<1	1
Magnesium	ppm	ASTM D5185m	450	987	1030	1128
Calcium	ppm	ASTM D5185m	3000	1091	1133	1196
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	1150 1350	1111 1303	1092 1358	1148 1462
Sulfur	ppm ppm	ASTM D5185m		3825	3222	4025
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	6	8
Sodium	ppm	ASTM D5185m	>158	4	2	4
Potassium	ppm	ASTM D5185m	>20	4	1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	1.8	2.2
Nitration	Abs/cm	*ASTM D7624	>20	10.2	13.3	14.9
Sulfation	Abs/.1mm	*ASTM D7415		21.3	24.4	26.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	20.4	23.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.2	9.8	9.9
(0 - 3					



OIL ANALYSIS REPORT



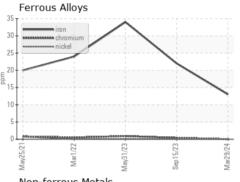


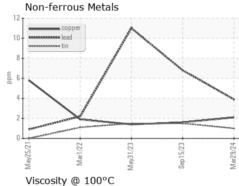


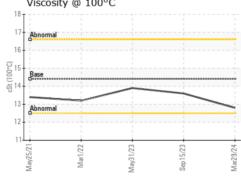
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

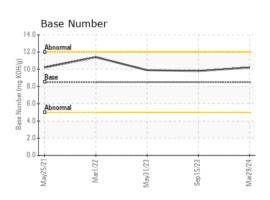
FLUID PROPERTIES		metnoa	ilmit/base	current	nistory i	nistory2	
Visc @ 100°C	cSt	ASTM D445	14.4	12.8	13.6	13.9	

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06153628 Unique Number : 10983706

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0912565

Received Test Package : FLEET

Tested Diagnosed

: 19 Apr 2024 : 19 Apr 2024 - Wes Davis

: 18 Apr 2024

FRESHPOINT 8801 EXCHANGE DRVIE ORLANDO, FL US 32809

Contact: CRAIG EVANS evans_craig@sbcglobal.net

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)

T:

F: