



OIL ANALYSIS REPORT

Sample Rating Trend

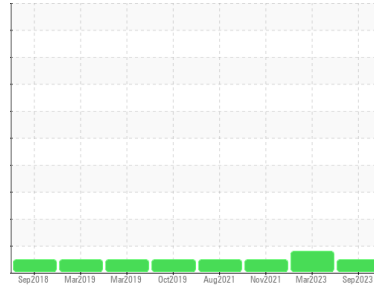
NORMAL



Machine Id
FSP133180 (S/N FVGS8303)

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (44 QTS)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0787680	WC0787540	WC0640763
Sample Date	Client Info			29 Sep 2023	30 Mar 2023	29 Nov 2021
Machine Age	mls	Client Info		527939	0	484246
Oil Age	mls	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method		>3.0	<1.0	<1.0	<1.0
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	10	89	30
Chromium	ppm	ASTM D5185m	>20	<1	4	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	1
Aluminum	ppm	ASTM D5185m	>30	5	▲ 36	16
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>30	1	7	3
Tin	ppm	ASTM D5185m	>15	0	0	<1
Antimony	ppm	ASTM D5185m		---	---	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	4	<1	0
Barium	ppm	ASTM D5185m	10	5	0	0
Molybdenum	ppm	ASTM D5185m	100	61	69	61
Manganese	ppm	ASTM D5185m		0	2	<1
Magnesium	ppm	ASTM D5185m	450	877	1086	962
Calcium	ppm	ASTM D5185m	3000	993	1295	1223
Phosphorus	ppm	ASTM D5185m	1150	973	1101	1044
Zinc	ppm	ASTM D5185m	1350	1151	1413	1311
Sulfur	ppm	ASTM D5185m	4250	3283	3308	2792

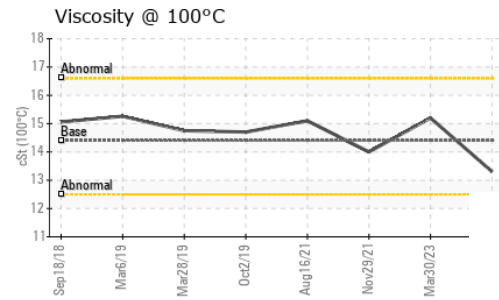
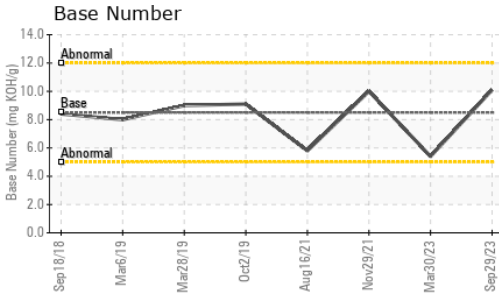
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	11	5
Sodium	ppm	ASTM D5185m	>158	2	2	1
Potassium	ppm	ASTM D5185m	>20	2	8	4

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	1.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	5.9	13.7	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	27.5	21.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	22.2	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.1	5.4	10



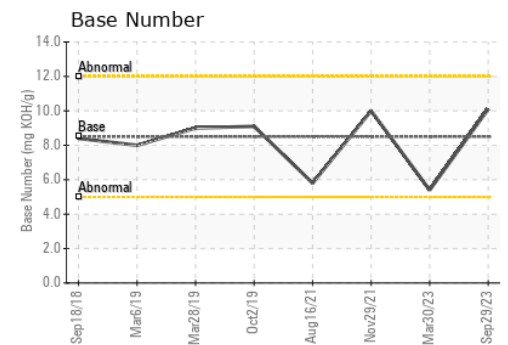
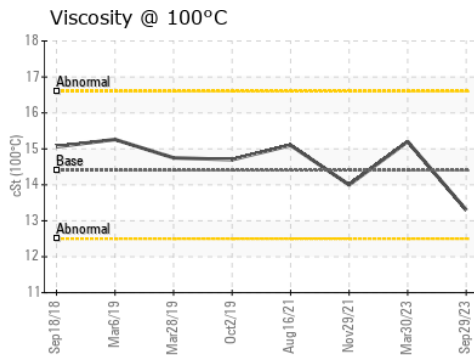
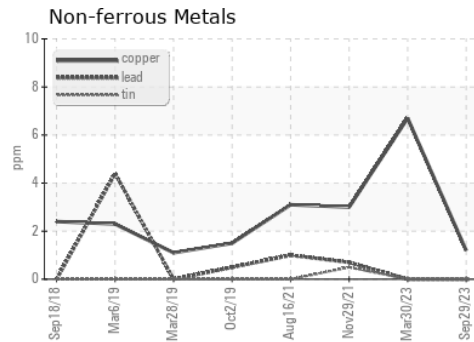
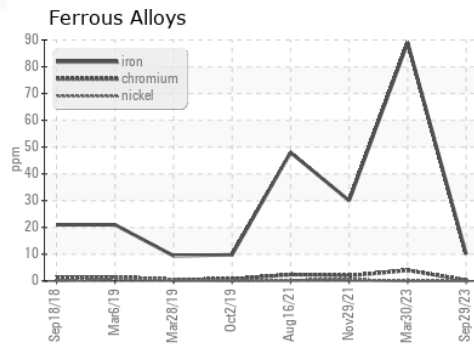
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	15.2	14.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0787680 **Received** : 07 Nov 2023
Lab Number : **06000926** **Diagnosed** : 08 Nov 2023
Unique Number : 10729286 **Diagnostician** : Wes Davis
Test Package : FLEET

FRESHPOINT
 8801 EXCHANGE DRIVE
 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)

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F: