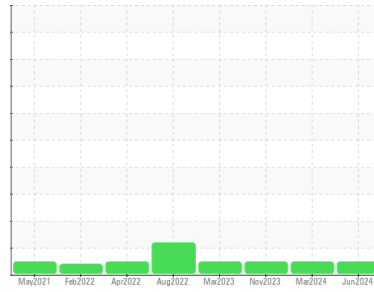




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

FSP141725

Component

Diesel Engine

Fluid

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

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. 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

Light fuel dilution occurring. No other contaminants were detected 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	WC0952548	WC0912502	WC0874108
Sample Date	Client Info	10 Jun 2024	21 Mar 2024	03 Nov 2023
Machine Age	mls Client Info	0	0	98602
Oil Age	mls Client Info	0	0	0
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
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	8	4	9
Chromium	ppm ASTM D5185m >20	0	0	<1
Nickel	ppm ASTM D5185m >4	<1	0	<1
Titanium	ppm ASTM D5185m	0	0	<1
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	3	2	2
Lead	ppm ASTM D5185m >40	1	<1	2
Copper	ppm ASTM D5185m >330	2	2	3
Tin	ppm ASTM D5185m >15	0	<1	<1
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	2	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	0	1	<1
Barium	ppm ASTM D5185m 10	0	0	1
Molybdenum	ppm ASTM D5185m 100	62	59	62
Manganese	ppm ASTM D5185m	1	<1	<1
Magnesium	ppm ASTM D5185m 450	991	966	971
Calcium	ppm ASTM D5185m 3000	1121	1058	1084
Phosphorus	ppm ASTM D5185m 1150	996	1099	997
Zinc	ppm ASTM D5185m 1350	1217	1242	1206
Sulfur	ppm ASTM D5185m 4250	3541	3880	3579

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	3	4	5
Sodium	ppm ASTM D5185m >158	4	3	0
Potassium	ppm ASTM D5185m >20	4	3	4
Fuel	% ASTM D3524 >5	1.4	<1.0	<1.0

INFRA-RED

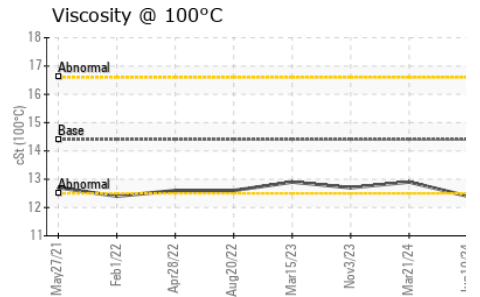
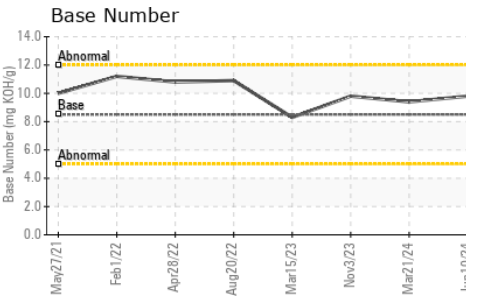
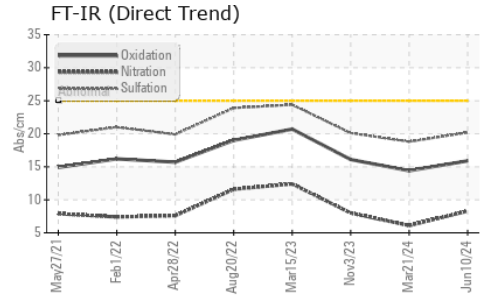
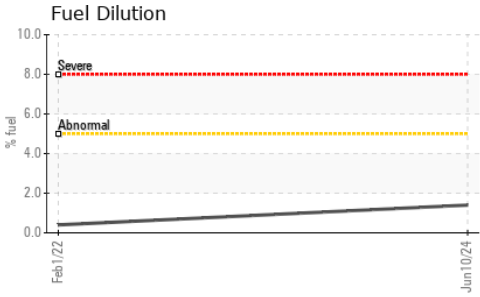
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.6	0.3	0.6
Nitration	Abs/cm *ASTM D7624 >20	8.3	6.1	8.0
Sulfation	Abs/.1mm *ASTM D7415 >30	20.2	18.8	20.1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	15.9	14.4	16.1
Base Number (BN)	mg KOH/g ASTM D2896 8.5	9.8	9.4	9.8



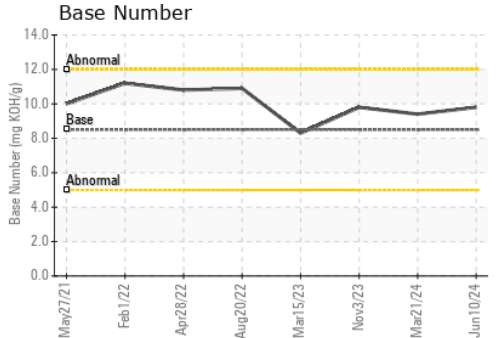
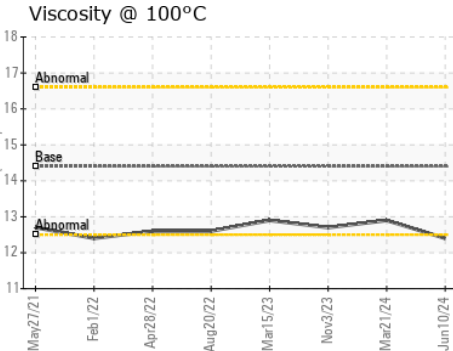
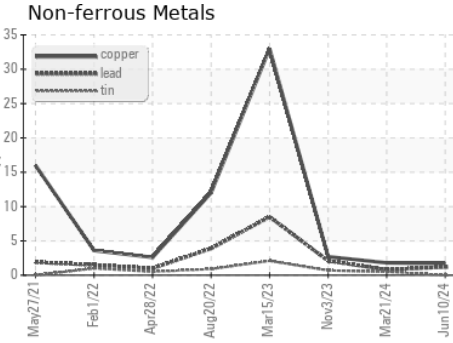
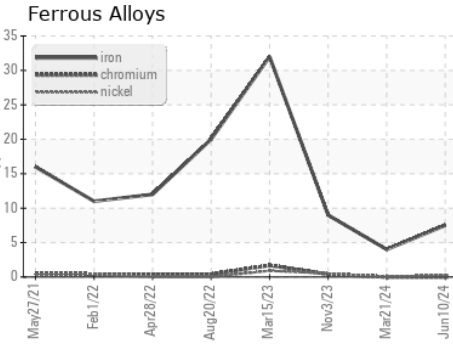
OIL ANALYSIS REPORT



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	12.4	12.9	12.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0952548 **Received** : 13 Jun 2024
Lab Number : 06209556 **Tested** : 19 Jun 2024
Unique Number : 11077017 **Diagnosed** : 19 Jun 2024 - Wes Davis
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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 DRIVE
 ORLANDO, FL
 US 32809
 Contact: CRAIG EVANS
 evans_craig@sbcglobal.net

T:
F: