



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
12381
Component
Diesel Engine
Fluid
SAE 0W40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

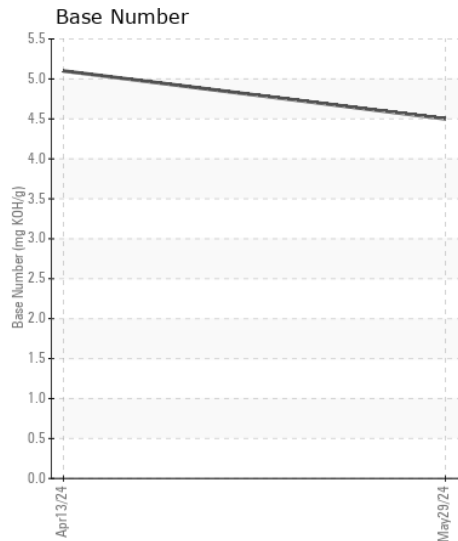
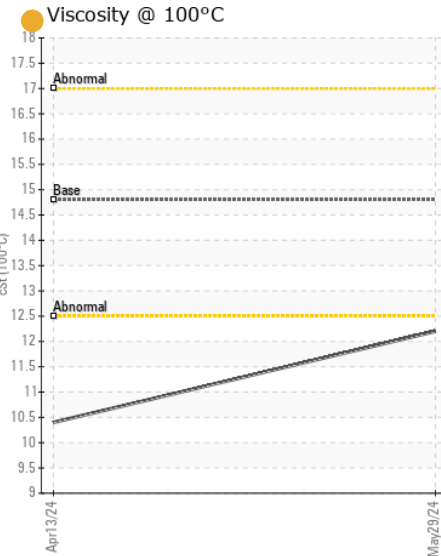
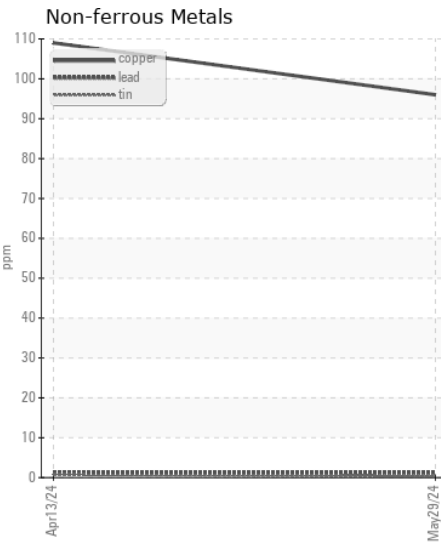
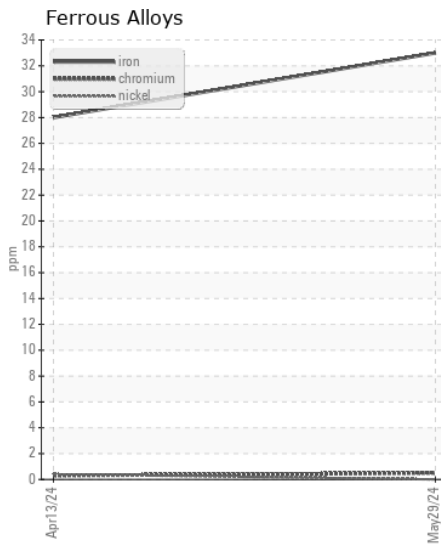
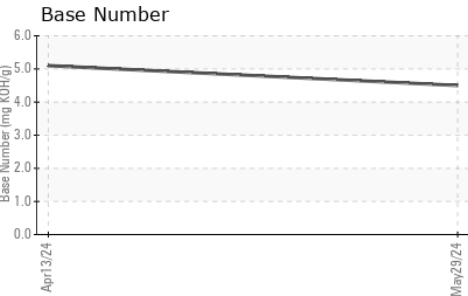
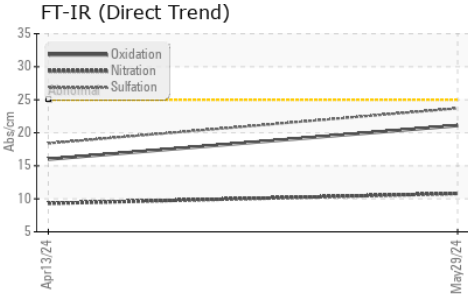
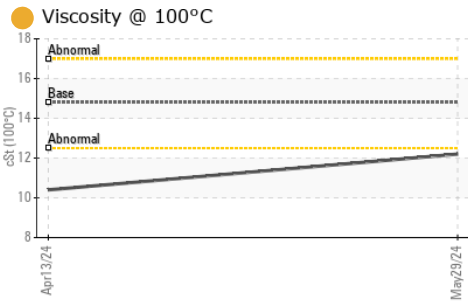
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0913612	WC0924506	---
Sample Date		Client Info		29 May 2024	13 Apr 2024	---
Machine Age	mls	Client Info		15241	8352	---
Oil Age	mls	Client Info		0	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ATTENTION	ATTENTION	---
Iron	ppm	ASTM D5185m	>100	33	28	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		2	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	4	5	---
Lead	ppm	ASTM D5185m	>40	1	1	---
Copper	ppm	ASTM D5185m	>330	96	109	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	17	11	---
Potassium	ppm	ASTM D5185m	>20	4	17	---
Fuel	%	ASTM D3524	>5	<1.0	0.3	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0	---
Nitration	Abs/cm	*ASTM D7624	>20	10.8	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	18.4	---
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	---
Sodium	ppm	ASTM D5185m		4	7	---
Boron	ppm	ASTM D5185m		27	14	---
Barium	ppm	ASTM D5185m		0	3	---
Molybdenum	ppm	ASTM D5185m		179	71	---
Manganese	ppm	ASTM D5185m		20	9	---
Magnesium	ppm	ASTM D5185m		637	555	---
Calcium	ppm	ASTM D5185m		1002	1053	---
Phosphorus	ppm	ASTM D5185m		544	672	---
Zinc	ppm	ASTM D5185m		682	820	---
Sulfur	ppm	ASTM D5185m		2584	2260	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	16.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		4.5	5.1	---
Visc @ 100°C	cSt	ASTM D445	14.8	12.2	10.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0913612 **Received** : 30 May 2024
Lab Number : 06196153 **Tested** : 02 Jun 2024
Unique Number : 11058276 **Diagnosed** : 02 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, TBN)

SULLIVAN EASTERN INC
 2860 C SLATER RD
 MORRISVILLE, NC
 US 27560

Contact: SCOTT SULLIVAN
 ssullivan@sullivan-eastern.com

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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