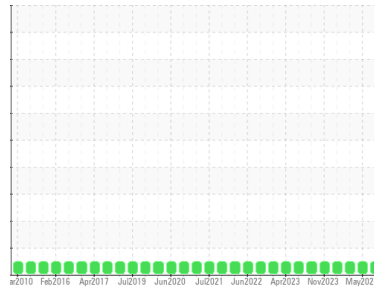# OIL ANALYSIS REPORT

NORMAL

Sample Rating Trend

Area
OKLAHOMA/102/EG - OTHER SERVICE
Machine Id
54.16L [OKLAHOMA^102^EG - OTHER SERVICE]
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. (Customer Sample Comment: 8883 hours)

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		**WC0925222**	WC0864415	WC0864391
Sample Date	Client Info		**29 May 2024**	03 May 2024	10 Apr 2024
Machine Age	hrs Client Info		**8883**	8875	8818
Oil Age	hrs Client Info		**8818**	0	575
Oil Changed	Client Info		**N/A**	N/A	Changed
Sample Status			**NORMAL**	NORMAL	NORMAL

CONTAMINATION

	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	>150	**4**	3	3
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**0**	0	<1
Titanium	ppm	ASTM D5185m	>2	**<1**	0	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>20	**2**	1	3
Lead	ppm	ASTM D5185m	>40	**0**	<1	<1
Copper	ppm	ASTM D5185m	>30	**<1**	0	<1
Tin	ppm	ASTM D5185m	>15	**<1**	0	<1
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	<1	<1

ADDITIVES

		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**91**	91	77
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**48**	53	39
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	0	**495**	597	468
Calcium	ppm	ASTM D5185m		**1621**	1960	1559
Phosphorus	ppm	ASTM D5185m		**704**	904	769
Zinc	ppm	ASTM D5185m		**893**	1094	875
Sulfur	ppm	ASTM D5185m		**2562**	3519	2729

CONTAMINANTS

		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**9**	10	9
Sodium	ppm	ASTM D5185m		**2**	1	<1
Potassium	ppm	ASTM D5185m	>20	**4**	3	2

INFRA-RED

		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0**	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**5.0**	5.1	5.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	**21.3**	21.6	21.5

FLUID DEGRADATION

		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**19.0**	19.4	19.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	**10.2**	10.2	10.4

OIL ANALYSIS REPORT

FT-IR (Direct Trend)
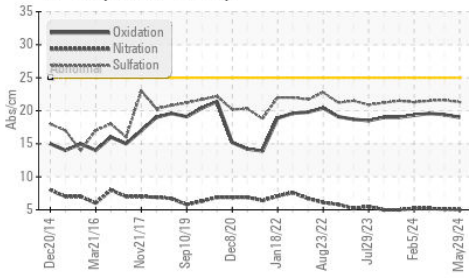
Base Number
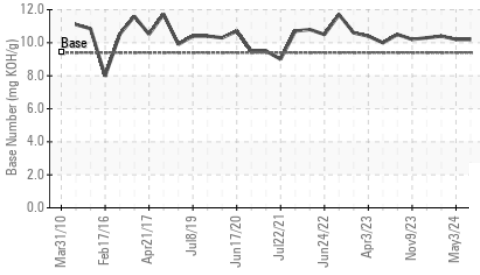
Viscosity @ 100°C
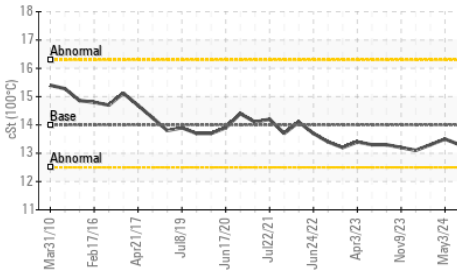
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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

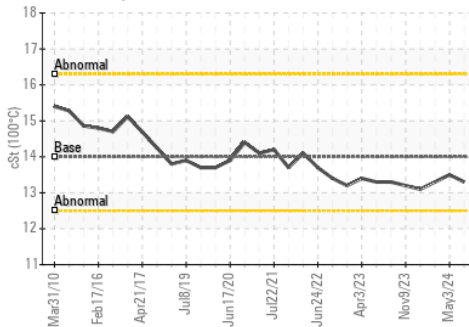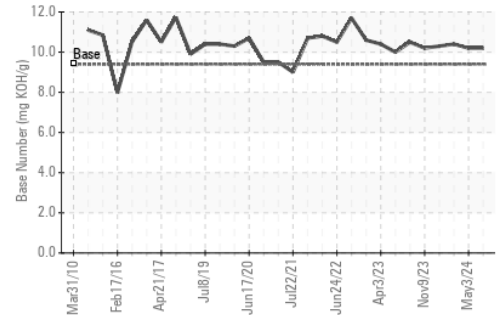| FLUID PROPERTIES	method		limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	**13.3**	13.5	13.3

GRAPHS

Ferrous Alloys
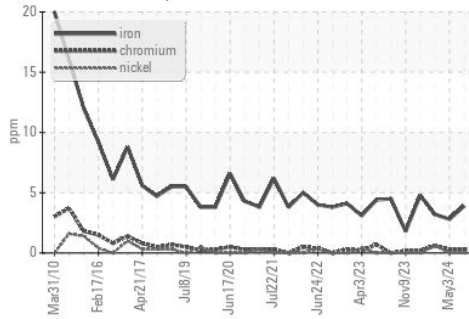
Non-ferrous Metals
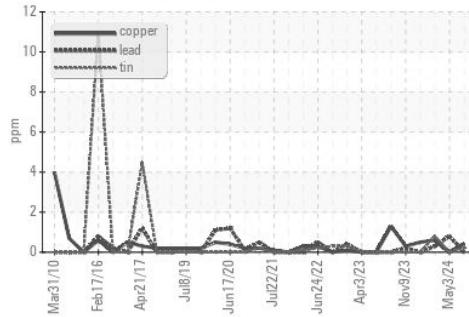
Viscosity @ 100°C

Base Number

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0925222   **Received** : 07 Jun 2024
Lab Number : 06203792   **Tested** : 12 Jun 2024
Unique Number : 11071253   **Diagnosed** : 12 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: TBN)

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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