CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Contracting
Machine Id
2006 2006
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (4 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

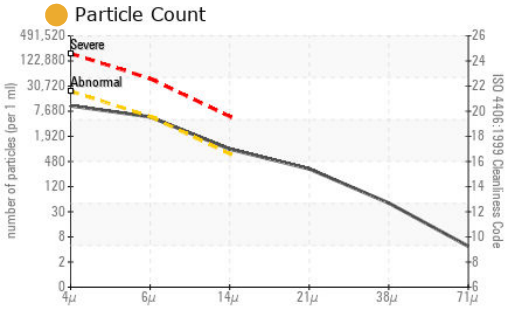
CONTAMINATION

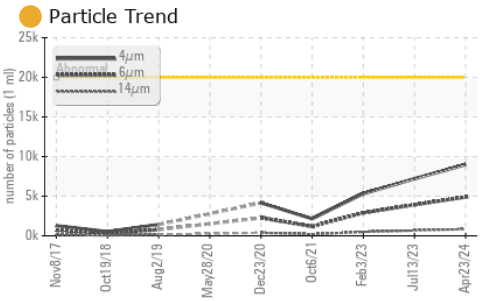
There is a moderate amount of particulates present in the oil.

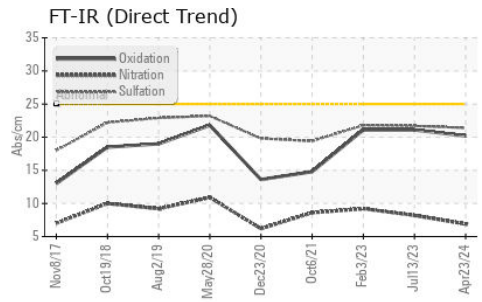
FLUID CONDITION

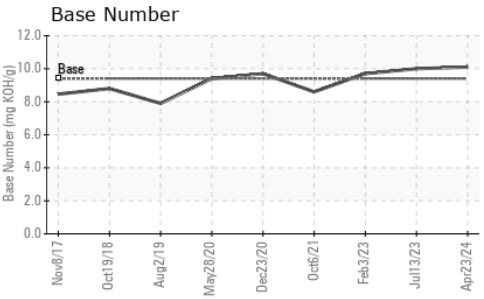
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

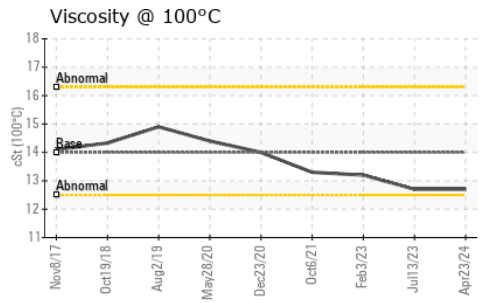
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0918736	WC0808808	WC0784551
Sample Date		Client Info		23 Apr 2024	13 Jul 2023	03 Feb 2023
Machine Age	hrs	Client Info		7364	7175	6833
Oil Age	hrs	Client Info		189	342	479
Filter Age	hrs	Client Info		189	342	479
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	NORMAL
Iron	ppm	ASTM D5185m	>100	7	9	12
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	2
Lead	ppm	ASTM D5185m	>40	2	0	<1
Copper	ppm	ASTM D5185m	>330	1	<1	<1
Tin	ppm	ASTM D5185m	>15	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	8	6	8
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.9	8.2	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	21.7	21.8
Particles >4µm		ASTM D7647	>20000	8987	7203	5316
Particles >6µm		ASTM D7647	>5000	4896	3924	2896
Particles >14µm		ASTM D7647	>640	833	668	493
Particles >21µm		ASTM D7647	>160	281	225	166
Particles >38µm		ASTM D7647	>40	43	35	26
Particles >71µm		ASTM D7647	>10	4	4	3
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/17	20/19/17	20/19/16
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
Sodium	ppm	ASTM D5185m		<1	0	4
Boron	ppm	ASTM D5185m	0	62	53	53
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	48	53	45
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	0	509	508	548
Calcium	ppm	ASTM D5185m		1724	1739	1834
Phosphorus	ppm	ASTM D5185m		749	786	772
Zinc	ppm	ASTM D5185m		929	943	946
Sulfur	ppm	ASTM D5185m		2831	2583	3052
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	21.1	21.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	10.1	10.0	9.7
Visc @ 100°C	cSt	ASTM D445	14	12.7	12.7	13.2

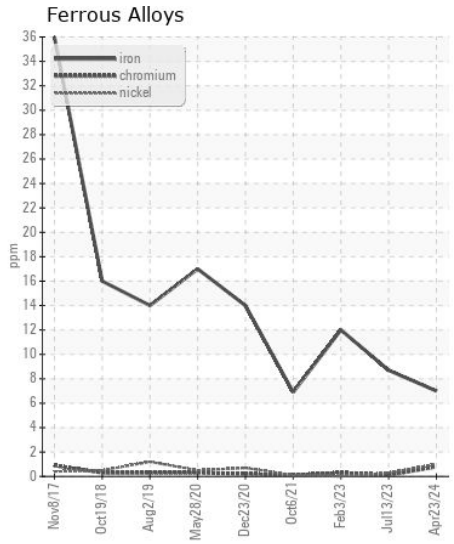


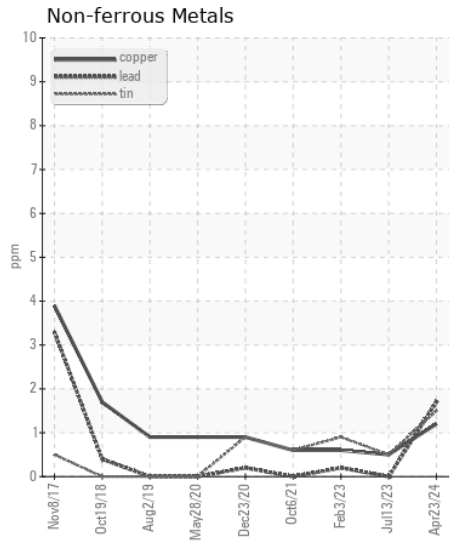


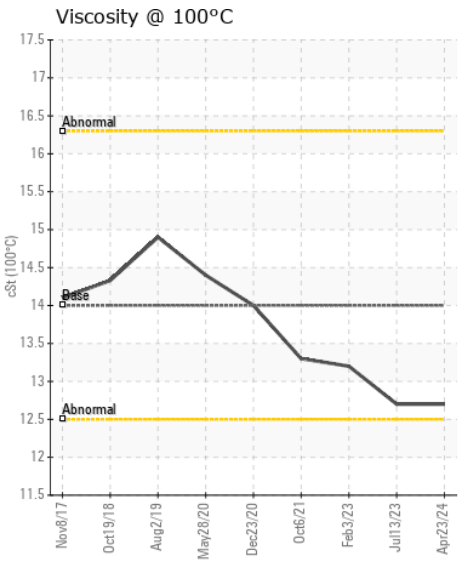


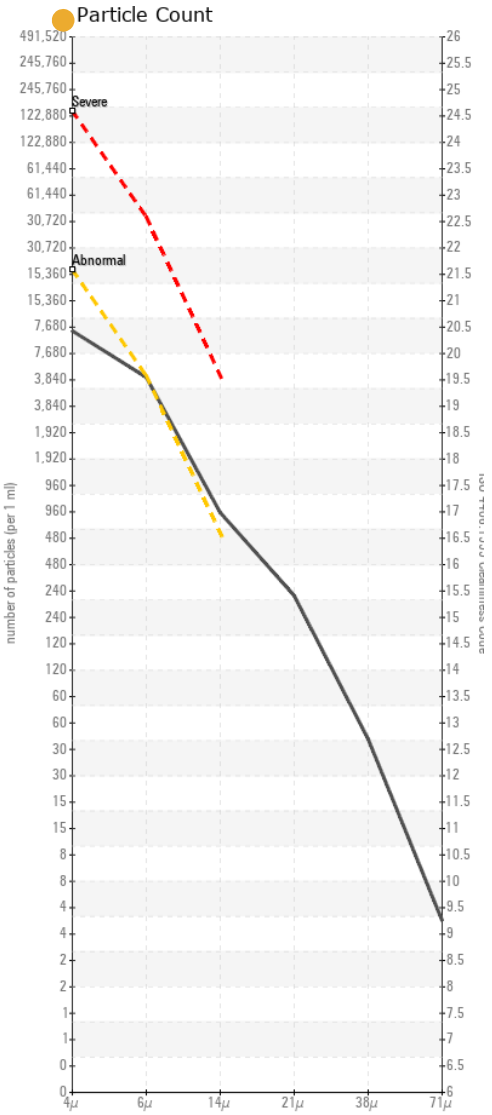


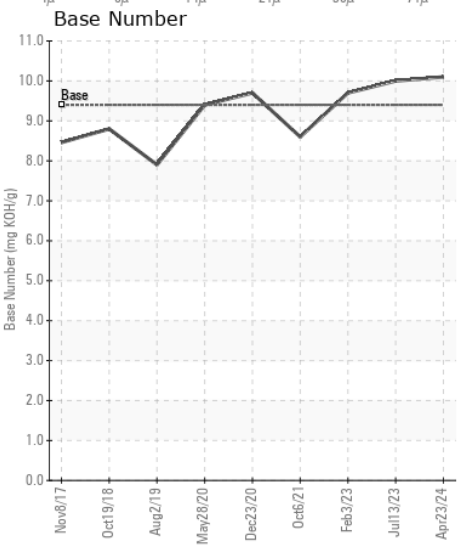












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918736 **Received** : 25 Apr 2024
Lab Number : 06160225 **Tested** : 26 Apr 2024
Unique Number : 10995648 **Diagnosed** : 26 Apr 2024 - Don Baldridge
Test Package : CONST (Additional Tests: PrtCount, TBN)

Certificate L2367

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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