



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DURALENE AGMA EP4

Component
New (Unused) Oil

Fluid
{not provided} (--- LTR)

RECOMMENDATION

This is a baseline read-out on the submitted sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0033718	DC0033741	DC0033909
Sample Date		Client Info		26 Jun 2024	14 Jun 2024	04 Jun 2024
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

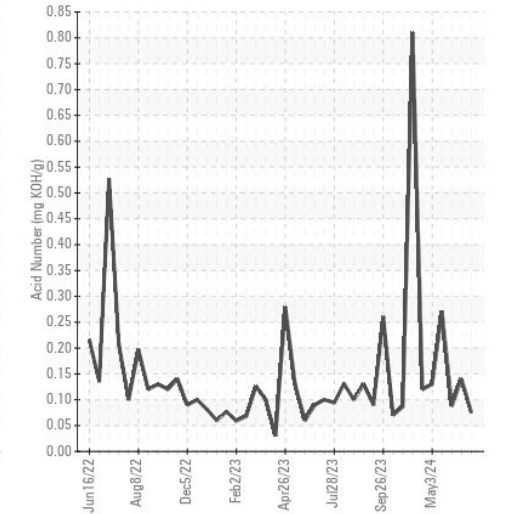
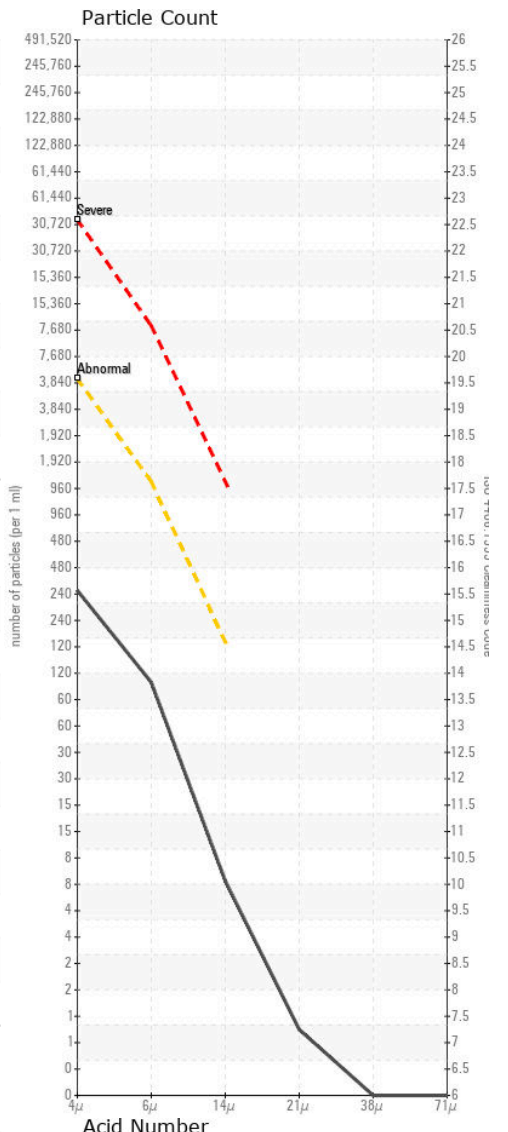
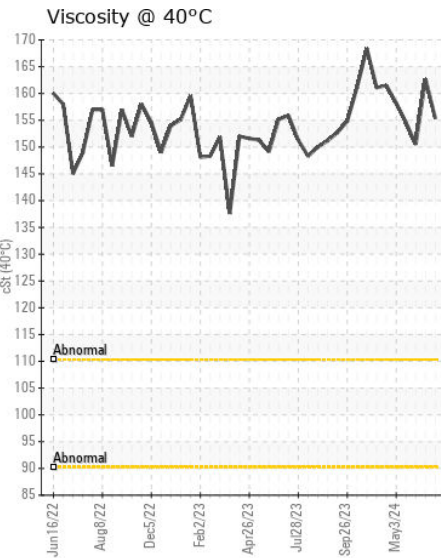
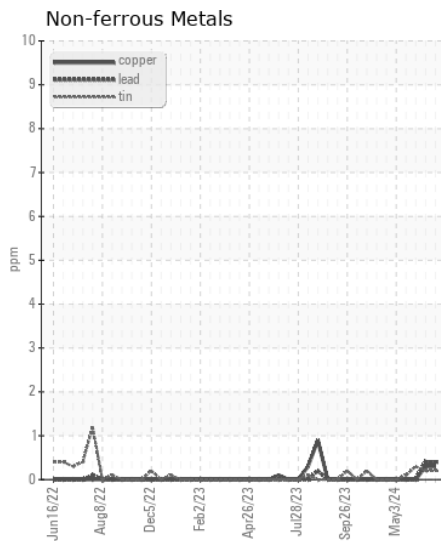
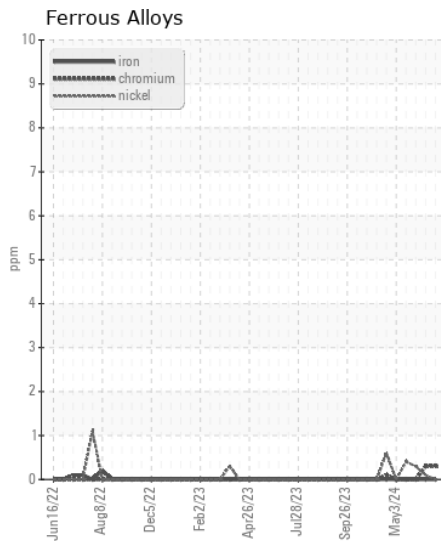
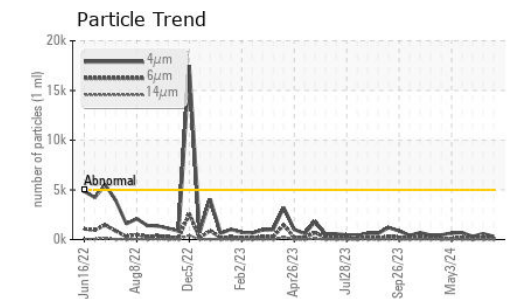
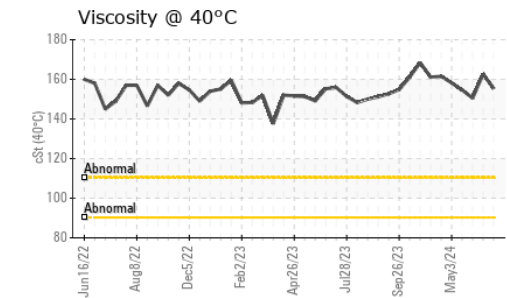
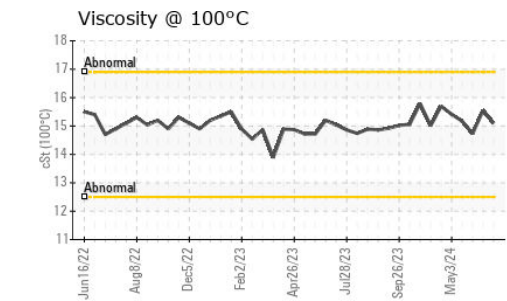
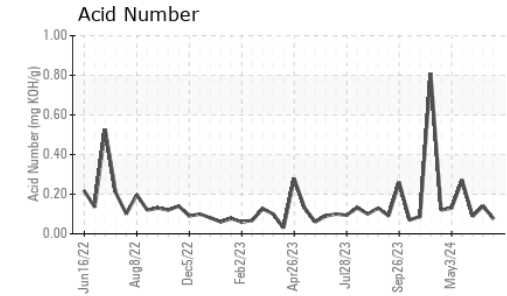
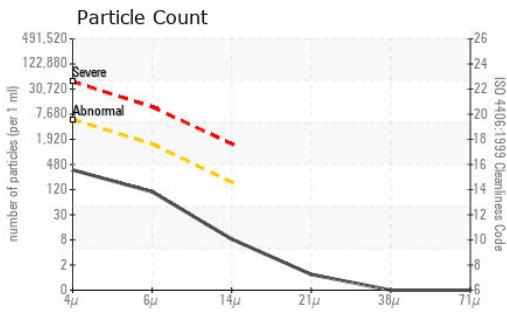
Iron	ppm	ASTM D5185m		0	0	0
Chromium	ppm	ASTM D5185m		<1	<1	0
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		3	3	0
Lead	ppm	ASTM D5185m		<1	<1	0
Copper	ppm	ASTM D5185m		<1	<1	0
Tin	ppm	ASTM D5185m		<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Silicon	ppm	ASTM D5185m		7	0	0
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water		WC Method		NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	313	591	313
Particles >6µm		ASTM D7647	>1300	94	178	84
Particles >14µm		ASTM D7647	>160	7	11	4
Particles >21µm		ASTM D7647	>40	1	2	1
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/14/10	16/15/11	15/14/9
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		NEG	NEG	NEG

FLUID CONDITION

Sodium	ppm	ASTM D5185m		0	0	<1
Boron	ppm	ASTM D5185m		8	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		2	4	6
Calcium	ppm	ASTM D5185m		4	8	8
Phosphorus	ppm	ASTM D5185m		115	66	75
Zinc	ppm	ASTM D5185m		7	13	3
Sulfur	ppm	ASTM D5185m		15859	14543	17090
Acid Number (AN)	mg KOH/g	ASTM D8045		0.075	0.14	0.088
Visc @ 40°C	cSt	ASTM D445		155.3	162.7	150.5
Visc @ 100°C	cSt	ASTM D445		15.1	15.55	14.73
Viscosity Index (VI)	Scale	ASTM D2270		97	96	96



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0033718 **Received** : 10 Jul 2024
Lab Number : 06232681 **Tested** : 12 Jul 2024
Unique Number : 11116174 **Diagnosed** : 12 Jul 2024 - Angela Borella
Test Package : MOB 2 (Additional Tests: FT-IR, KV100, PrtCount, VI)

THE UNITED OIL COMPANY - OPERATIONS
 4405 E. BALTIMORE ST
 BALTIMORE, MD
 US 21224
 Contact: MICHELLE HORNING

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)

T:
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