



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PAULSBORO 230I
 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		DC0033602	DC0033912	DC0035816
Sample Date		Client Info		14 Jun 2024	31 May 2024	17 May 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

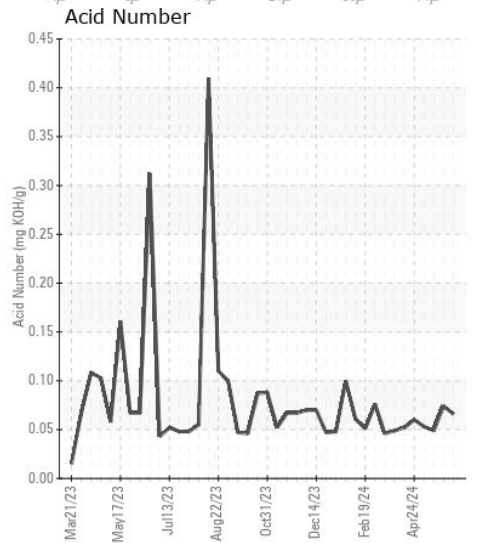
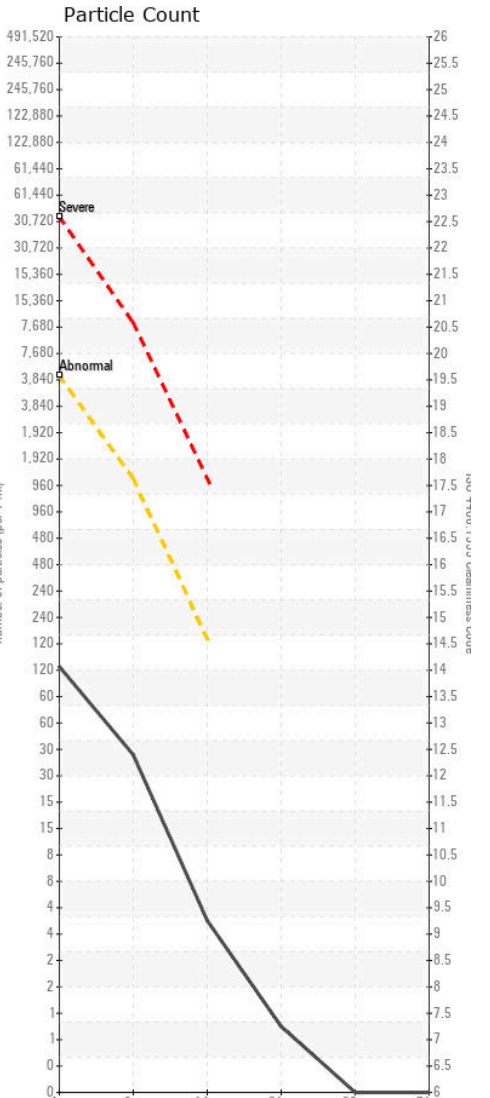
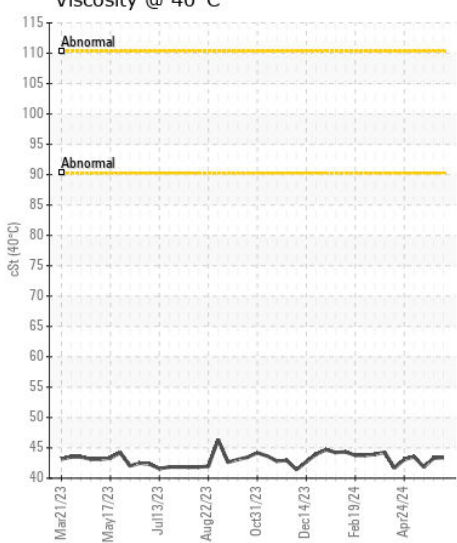
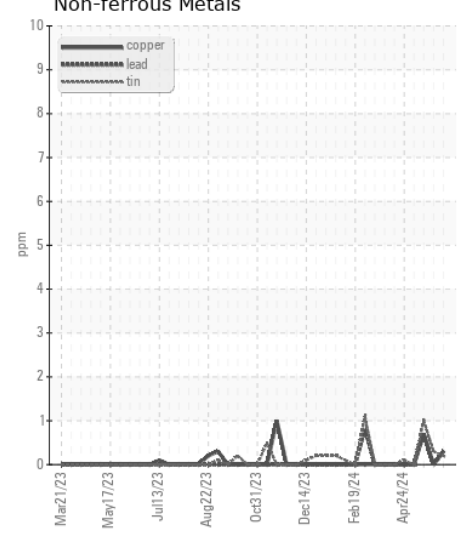
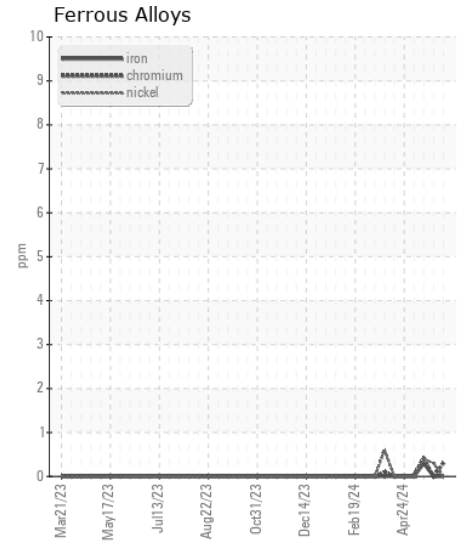
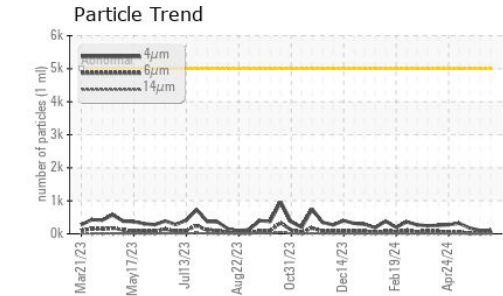
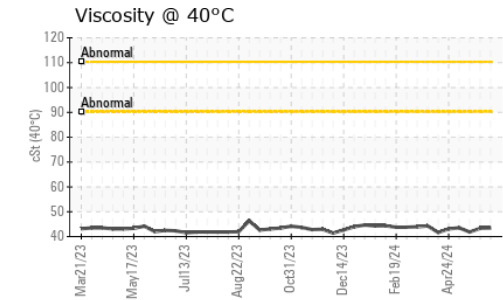
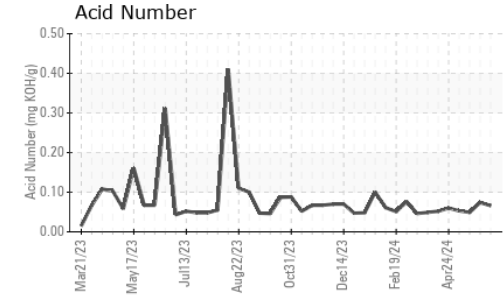
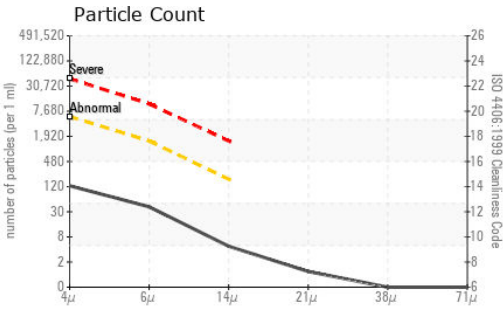
Iron	ppm	ASTM D5185m		0	0	<1
Chromium	ppm	ASTM D5185m		<1	0	<1
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		3	0	1
Lead	ppm	ASTM D5185m		<1	0	<1
Copper	ppm	ASTM D5185m		<1	0	<1
Tin	ppm	ASTM D5185m		<1	<1	1
Vanadium	ppm	ASTM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

CONTAMINATION

Silicon	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	1	<1	2
Water		WC Method		NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	111	102	176
Particles >6µm		ASTM D7647	>1300	35	27	19
Particles >14µm		ASTM D7647	>160	4	2	4
Particles >21µm		ASTM D7647	>40	1	0	2
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/12/9	14/12/9	15/11/9
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	<1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		<1	2	2
Calcium	ppm	ASTM D5185m		0	0	6
Phosphorus	ppm	ASTM D5185m		0	0	3
Zinc	ppm	ASTM D5185m		0	0	2
Sulfur	ppm	ASTM D5185m		5206	6207	6073
Acid Number (AN)	mg KOH/g	ASTM D8045		0.066	0.074	0.049
Visc @ 40°C	cSt	ASTM D445		43.42	43.31	41.83
Visc @ 100°C	cSt	ASTM D445		6.82	6.78	6.88
Viscosity Index (VI)	Scale	ASTM D2270		112	111	122



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0033602 **Received** : 10 Jul 2024
Lab Number : 06232668 **Tested** : 16 Jul 2024
Unique Number : 11116161 **Diagnosed** : 16 Jul 2024 - Jonathan Hester
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)