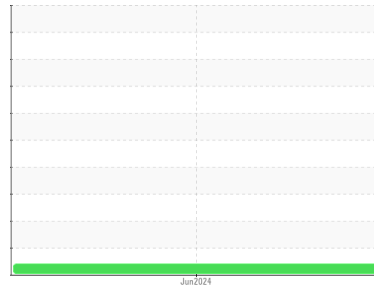




OIL ANALYSIS REPORT

Area
RESIN PLANT
 Machine Id
GENERATOR
 Component
Genset
 Fluid
VOLVO VDS-4.5 Premium Motor Oil 15W40 (21 GAL)

Sample Rating Trend



VISCOSITY



DIAGNOSIS

● Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

● 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0943763	---	---
Sample Date	Client Info		25 Jun 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ATTENTION	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		16	---	---
Iron	ppm	ASTM D5185m >50	0	---	---
Chromium	ppm	ASTM D5185m >4	<1	---	---
Nickel	ppm	ASTM D5185m >2	0	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m >5	0	---	---
Aluminum	ppm	ASTM D5185m >12	2	---	---
Lead	ppm	ASTM D5185m >17	0	---	---
Copper	ppm	ASTM D5185m >70	2	---	---
Tin	ppm	ASTM D5185m >15	0	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	67	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	40	---	---
Manganese	ppm	ASTM D5185m	0	---	---
Magnesium	ppm	ASTM D5185m	483	---	---
Calcium	ppm	ASTM D5185m	1572	---	---
Phosphorus	ppm	ASTM D5185m	828	---	---
Zinc	ppm	ASTM D5185m	1118	---	---
Sulfur	ppm	ASTM D5185m	2827	---	---

CONTAMINANTS

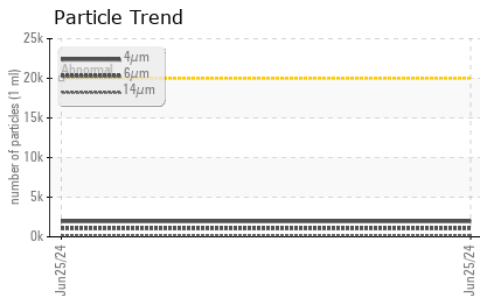
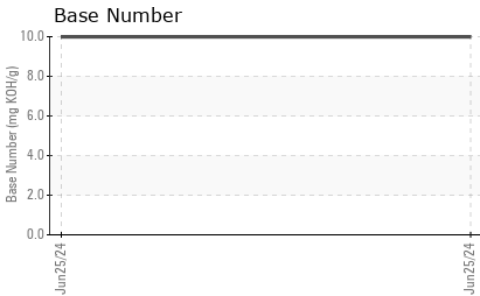
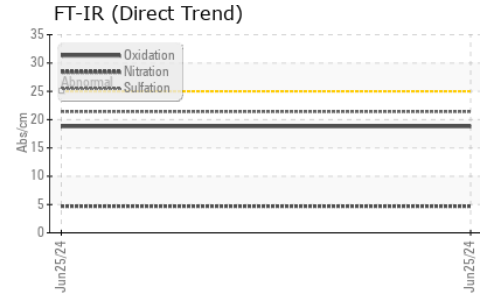
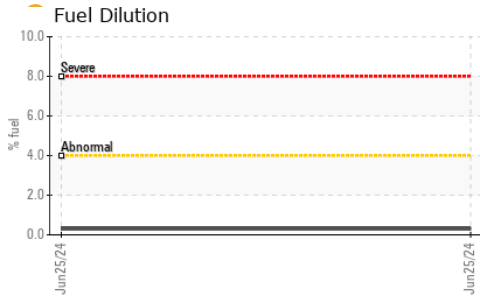
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	14	---	---
Sodium	ppm	ASTM D5185m	3	---	---
Potassium	ppm	ASTM D5185m >20	1	---	---
Fuel	%	ASTM D3524 >4.0	0.3	---	---
Water	%	ASTM D6304 >0.1	NEG	---	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	---	---
Nitration	Abs/cm	*ASTM D7624 >20	4.7	---	---
Sulfation	Abs./1mm	*ASTM D7415 >30	21.4	---	---



OIL ANALYSIS REPORT



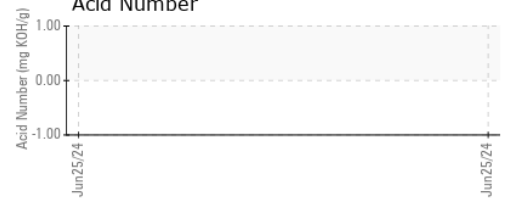
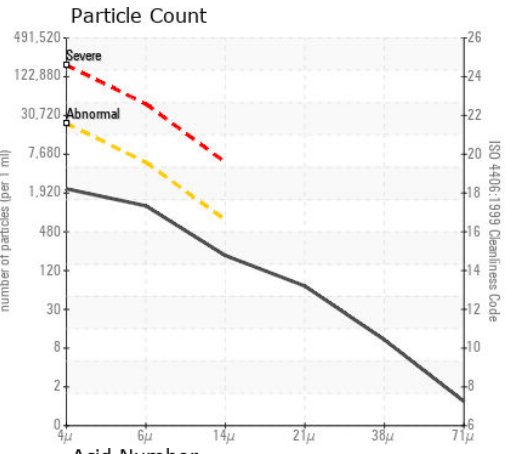
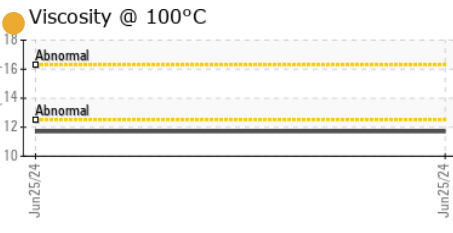
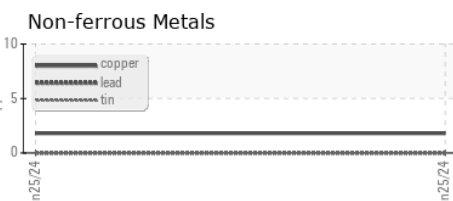
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	1949	---	---
Particles >6µm	ASTM D7647	>5000	1062	---	---
Particles >14µm	ASTM D7647	>640	181	---	---
Particles >21µm	ASTM D7647	>160	61	---	---
Particles >38µm	ASTM D7647	>40	9	---	---
Particles >71µm	ASTM D7647	>10	1	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	18/17/15	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	18.8	---	---
Base Number (BN)	mg KOH/g ASTM D2896		9.99	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	NONE	---	---
Yellow Metal	scalar *Visual	NONE	NONE	---	---
Precipitate	scalar *Visual	NONE	NONE	---	---
Silt	scalar *Visual	NONE	NONE	---	---
Debris	scalar *Visual	NONE	NONE	---	---
Sand/Dirt	scalar *Visual	NONE	NONE	---	---
Appearance	scalar *Visual	NORML	NORML	---	---
Odor	scalar *Visual	NORML	NORML	---	---
Emulsified Water	scalar *Visual	>0.1	NEG	---	---
Free Water	scalar *Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		11.7	---	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0943763
Lab Number : 06221413
Unique Number : 11099610
Test Package : PLANT (Additional Tests: FT-IR, FuelDilution, KV100, PercentFuel, TBN)

BAKELITE CHEMICALS - BEAVER CREEK
 4113 W 4 MILE RD
 GRAYLING, MI
 US 49738

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)

Contact: Nick Swiercz
 nick.swiercz@bakelite.com

T:
 F: