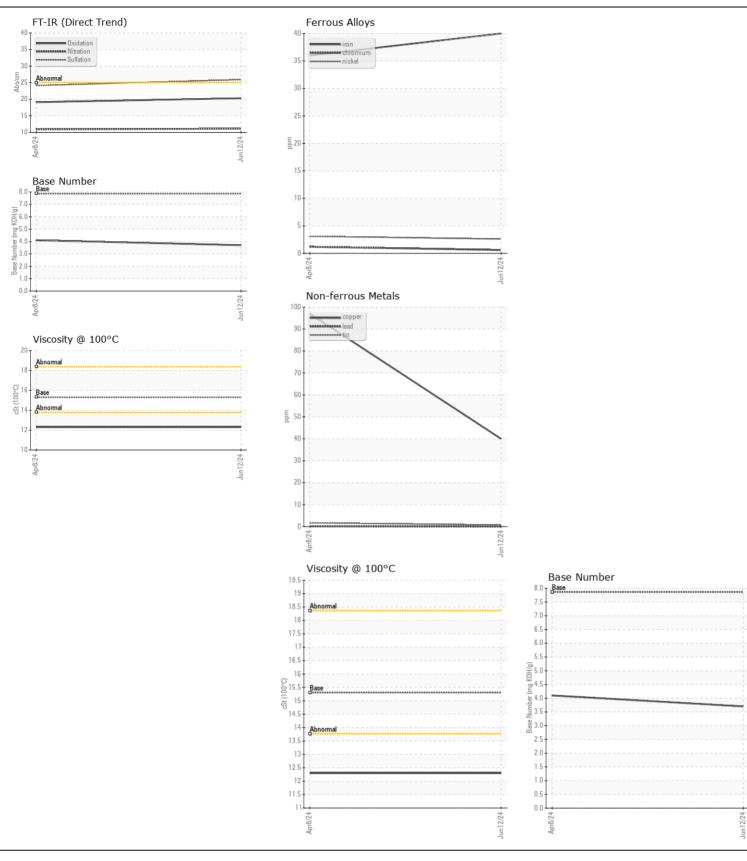
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id

VOLVO VNL 3004 (S/N RN654170) Component Diesel Engine

SAFETY-KLEEN PERFORMANCE PLUS 15W40 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DE0000656	DE0000654	
Resample at the next service interval to monitor. Please note that this is a corrected copy.	Sample Date		Client Info		12 Jun 2024	08 Apr 2024	
	Machine Age	mls	Client Info		114600	80900	
	Oil Age	mls	Client Info		33700	29109	
	Filter Age	mls	Client Info		33700	29109	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ATTENTION	
VEAR	Iron	ppm	ASTM D5185m	>100	40	36	
	Chromium	ppm	ASTM D5185m	>20	<1	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	3	3	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>2	1	<1	
	Aluminum	ppm	ASTM D5185m	>25	10	11	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m	>330	40	97	
	Tin	ppm	ASTM D5185m	>15	<1	2	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m	> 25	13	14	
CONTAININATION	Potassium	ppm	ASTM D5185m		23	24	
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	0.8	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	<i>></i> 0.∠	NEG	NEG	
	Soot %	%	*ASTM D7844	\3	0.5	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	11.1	10.9	
	Sulfation	Abs/.1mm	*ASTM D7415		25.9	24.1	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
LUD CONDITION	C = di=		ACTM DE10Ess				
LUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	1 /	3 4	2	
he BN result indicates that there is suitable alkalinity remaining in the	Barium		ASTM D5185m		0	0	
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm ppm	ASTM D5185m		2	6	
	Manganese	ppm	ASTM D5185m	0.1	1	<1	
	Magnesium	ppm	ASTM D5185m	27	30	52	
	Calcium	ppm	ASTM D5185m	2328	2412	2311	
	Phosphorus	ppm	ASTM D5185m		909	859	
	Zinc	ppm	ASTM D5185m		1095	1104	
	Sulfur	ppm	ASTM D5185m		3516	3167	
	Oxidation	Abs/.1mm	*ASTM D7414		20.3	19.1	
	Base Number (BN)				3.7	4.1	
	Dasc Halliber (DIV)	my Romy	7.0 TW D2000	7.00	V.,	7.1	







Certificate L2367

Laboratory Sample No.

: DE0000656 Lab Number : 06212782 Unique Number : 11085646 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** : 09 Jul 2024

Diagnosed : 09 Jul 2024 - Doug Bogart **US COMMERCIAL FREIGHT** 333 HOLLENBECK ST

ROCHESTER, NY US 14621

Contact: SERVICE

service@uscommercialfreight.com T: (585)755-8757

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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