WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

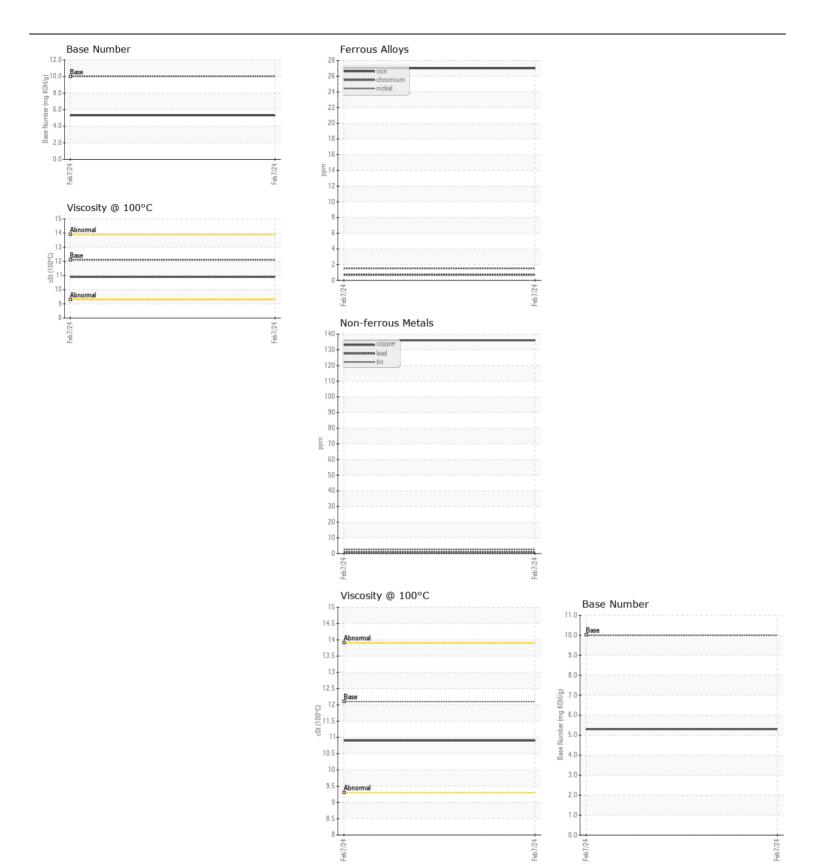
VOLVO VNL860 3007 (S/N RN654173)

Component Diesel Engine

CHEVRON DELO 400 XSP 5W30 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DE0000651		
Resample at the next service interval to monitor.	Sample Date		Client Info		07 Feb 2024		
	Machine Age	mls	Client Info		42892		
	Oil Age	mls	Client Info		28088		
	Filter Age	mls	Client Info		28088		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	27		
WLAN	Chromium	ppm	ASTM D5185m		<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		2		
	Titanium	ppm	ASTM D5185m	<i>/L</i>	<1		
	Silver	ppm	ASTM D5185m	\2	<1		
	Aluminum	ppm	ASTM D5185m		23		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		136		
	Tin	ppm	ASTM D5185m		3		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	18		
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	63		
	Fuel		WC Method	>6.0	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	11.0		
	Sulfation	Abs/.1mm	*ASTM D7415		23.7		
	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	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		42		
	Barium	ppm	ASTM D5185m		13		
	Molybdenum	ppm	ASTM D5185m		25		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		- 701		
	Calcium	ppm	ASTM D5185m		1348		
	Phosphorus	ppm	ASTM D5185m	800	718		
	Zinc	ppm	ASTM D5185m		836		
	Sulfur	ppm	ASTM D5185m		2721		
	Oxidation	Abs/.1mm	*ASTM D7414		20.9		
	Base Number (BN)				5.3		
	Visc @ 100°C	cSt	ASTM D445	12.1	10.9		
	-						

Contact/Location: SERVICE ? - USCROC







Laboratory Sample No.

: DE0000651 Lab Number : 06086536 Unique Number : 10873981 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024 : 13 Feb 2024 **Tested**

: 13 Feb 2024 - Wes Davis Diagnosed

US COMMERCIAL FREIGHT

333 HOLLENBECK ST ROCHESTER, NY US 14621

Contact: SERVICE

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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)