

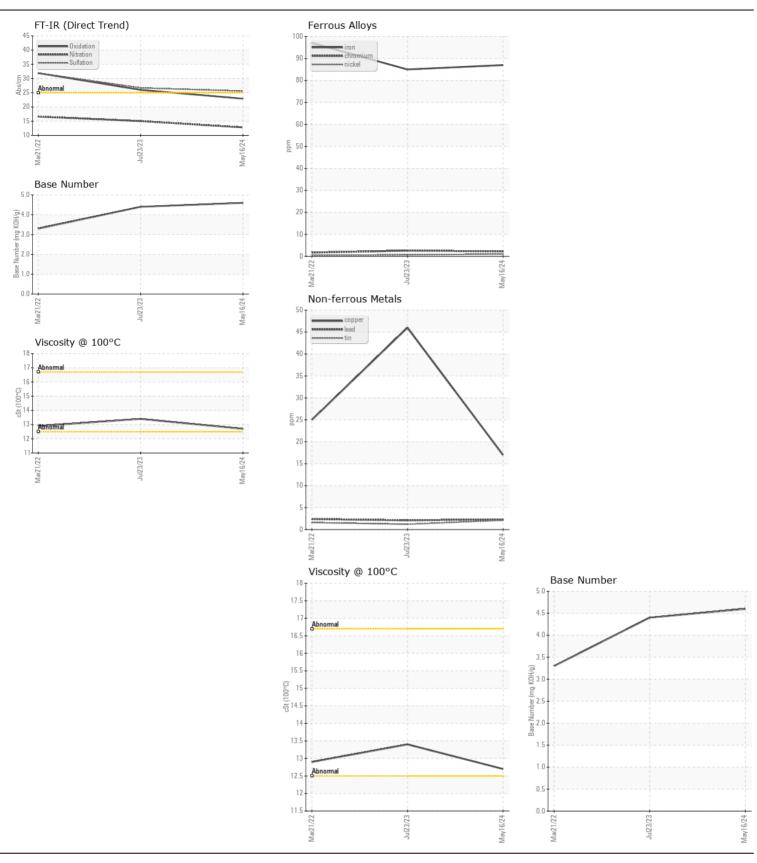
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL



ONE WORLD LOGISTICS VOLVO OWL207123 Component Diesel Engine

NOT GIVEN (GAL)							
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	UOIVI	Client Info	LIIIII/ADII	NL0002295	NL0001537	NL0000891
	Sample Date		Client Info		16 May 2024	23 Jul 2023	21 Mar 2022
	Machine Age	mls	Client Info		519087	0	294916
	Oil Age	mls	Client Info		64272	0	78475
	Filter Age	mls	Client Info		04272	0	78475
	Oil Changed	11113	Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status		Onone inio		NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	87	85	97
	Chromium	ppm	ASTM D5185m	>20	2	3	2
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>2	1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>2	1	0	<1
	Aluminum	ppm	ASTM D5185m	>25	15	63	8
	Lead	ppm	ASTM D5185m	>40	2	2	2
	Copper	ppm	ASTM D5185m	>330	17	46	25
	Tin	ppm	ASTM D5185m	>15	2	1	2
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	14	8	8
There is no indication of any contention in the cit	Potassium	ppm	ASTM D5185m	>20	27	160	8
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1	1.1	1.4
	Nitration	Abs/cm	*ASTM D7624	>20	12.8	15.0	16.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.6	26.7	31.9
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	5	3
The DNI requit indicates that there is quitable all all all all all all all all all a	Boron	ppm	ASTM D5185m		12	0	6
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		69	68	60
	Manganese	ppm	ASTM D5185m		2	2	2
	Magnesium	ppm	ASTM D5185m		1034	1093	901
	Calcium	ppm	ASTM D5185m		1200	1227	1316
	Phosphorus	ppm	ASTM D5185m		994	1056	971
	Zinc	ppm	ASTM D5185m		1353	1334	1130
	Sulfur	ppm	ASTM D5185m		2687	2680	1953
	Oxidation	Abs/.1mm	*ASTM D7414	>25	22.9	26.0	31.9
	Base Number (BN)				4.6	4.4	△ 3.3
	Visc @ 100°C	cSt	ASTM D445		12.7	13.4	12.9







Certificate L2367

Laboratory Sample No.

: NL0002295 Lab Number : 06190339 Unique Number : 11047091 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 **Tested** : 28 May 2024

Diagnosed : 28 May 2024 - Wes Davis **KIRK NATIONALEASE - SHOP 49** 601 England Rd. Lincoln, AL

US 35096 Contact: Skip Womack shop49@knl.cc

T: (205)548-3004 F: (205)548-3006

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)