CONST	MCCLUNG-LOGAN EQUIPMENT COMPANY, INC.
	OIL ANALYSIS REPORT

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Area [W02008096] Machine Id VOLVO ECR235 314620
Diesel Engine Fluid MOBIL 15W40 (8 GAL)

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Because is a the sector of the interval to section (O at the sector of	Sample Number		Client Info		ML0001069	VCP416225	VCP375121
Resample at the next service interval to monitor. (Customer Sample Comment: W02008096)	Sample Date		Client Info		19 Mar 2024	20 Jun 2023	09 Sep 2022
Comment. wo2000036)	Machine Age	hrs	Client Info		2441	1948	1451
	Oil Age	hrs	Client Info		500	500	500
	Filter Age	hrs	Client Info		500	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	27	28	20
	Chromium	ppm	ASTM D5185m	>10	<1	1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>10	7	4	4
	Lead	ppm	ASTM D5185m	>20	2	<1	<1
	Copper	ppm	ASTM D5185m	>15	1	1	2
	Tin	ppm	ASTM D5185m	>10	<1	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	8	8	6
	Potassium	ppm	ASTM D5185m		0	0	0
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	10.1	11.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	23.4	22.7
	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	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	1	4	2
	Boron		ASTM D5185m		195	126	7
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	0	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		129	103	62
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		688	765	870
	Calcium	ppm	ASTM D5185m		1607	1564	1421
	Phosphorus	ppm	ASTM D5185m		792	859	1077
	Zinc	ppm	ASTM D5185m		953	1046	1306
	Sulfur	ppm	ASTM D5185m		3026	3231	3758
	Ovidation	Δhe/ 1mm	*ASTM D7414	>25	199	20.3	20.8

Oxidation Abs/.1mm *ASTM D7414 >25

ASTM D445

Base Number (BN) mg KOH/g ASTM D2896

Visc @ 100°C cSt

20.3

13.8

8.4

19.9

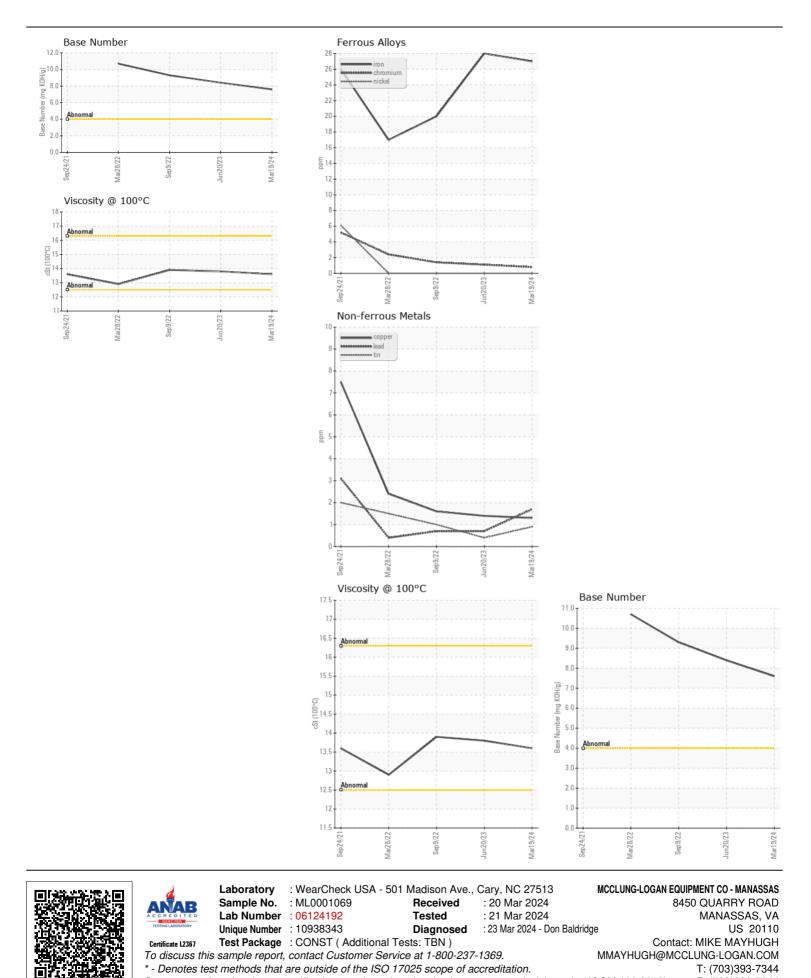
7.6

13.6

20.8

13.9

9.3



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

Submitted By: DARRELL ANDES

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