



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**Store 5 - Cross Lanes**  
 Machine Id  
**HAMM H12I WGH0H235VHAA01569**  
 Component  
**Diesel Engine**  
 Fluid  
**WIRTGEN GROUP LOW SAPS 10W30 (2 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0039289</b>	LEC0024157	LEC0030279
Sample Date		Client Info		<b>08 Feb 2023</b>	18 Apr 2022	08 Apr 2022
Machine Age	hrs	Client Info		<b>1155</b>	475	466
Oil Age	hrs	Client Info		<b>680</b>	475	466
Filter Age	hrs	Client Info		<b>680</b>	475	466
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>28</b>	34	30
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	4	3
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	6	4
Lead	ppm	ASTM D5185m	>40	<b>1</b>	1	2
Copper	ppm	ASTM D5185m	>330	<b>4</b>	9	8
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

There is no indication of any contamination in the oil.

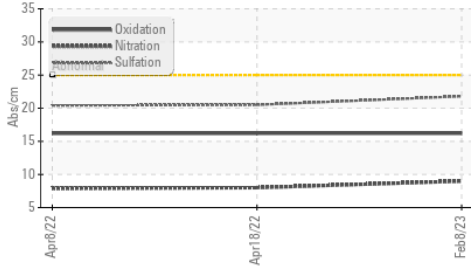
Silicon	ppm	ASTM D5185m	>120	<b>14</b>	19	17
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	18	15
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.0</b>	8.0	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.8</b>	20.5	20.4
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

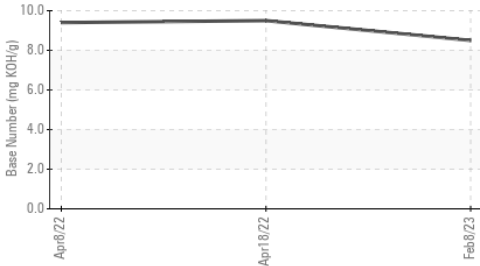
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	4	5
Boron	ppm	ASTM D5185m		<b>228</b>	88	85
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>221</b>	68	60
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>747</b>	577	548
Calcium	ppm	ASTM D5185m		<b>1458</b>	1757	1646
Phosphorus	ppm	ASTM D5185m		<b>831</b>	1157	996
Zinc	ppm	ASTM D5185m		<b>1037</b>	1431	1208
Sulfur	ppm	ASTM D5185m		<b>3300</b>	3741	3404
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.2</b>	16.2	16.2
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.5</b>	9.5	9.4
Visc @ 100°C	cSt	ASTM D445		<b>12.5</b>	12.4	12.4

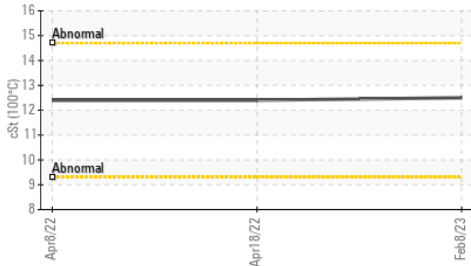
**FT-IR (Direct Trend)**



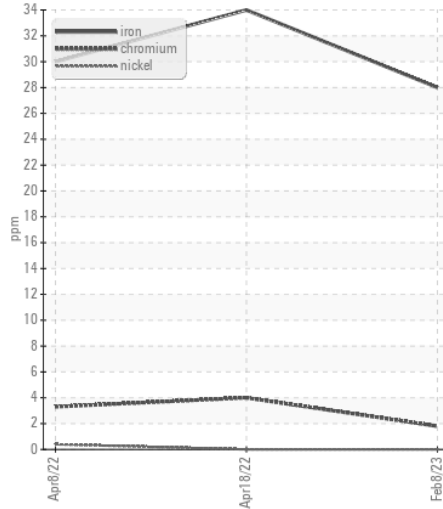
**Base Number**



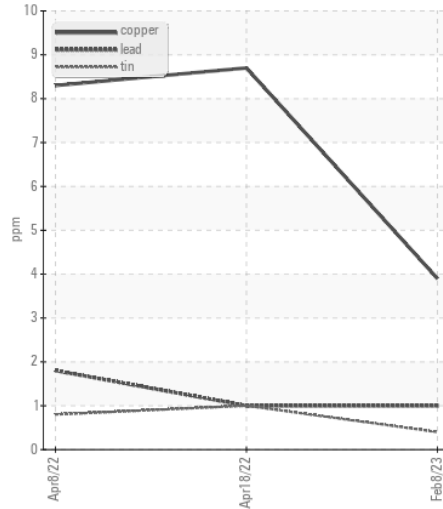
**Viscosity @ 100°C**



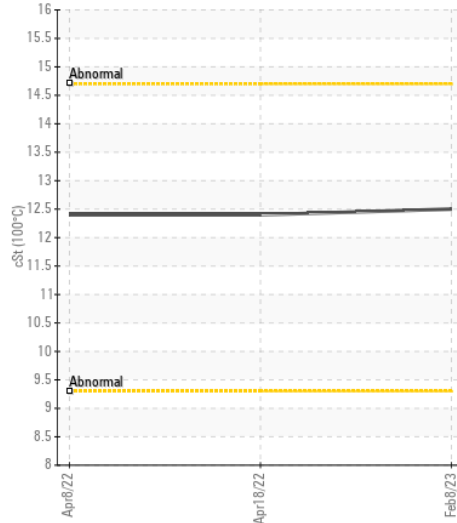
**Ferrous Alloys**



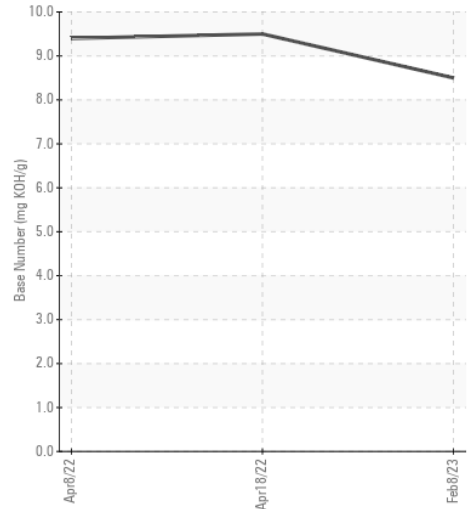
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0039289 **Received** : 10 Feb 2023  
**Lab Number** : 05764351 **Tested** : 12 Feb 2023  
**Unique Number** : 10333959 **Diagnosed** : 13 Feb 2023 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendalLeanne@lec1.com

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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