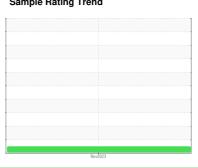


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



# Machine Id Engel ENGEL #15

**Hydraulic System** 

**NOT GIVEN (--- GAL)** 

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

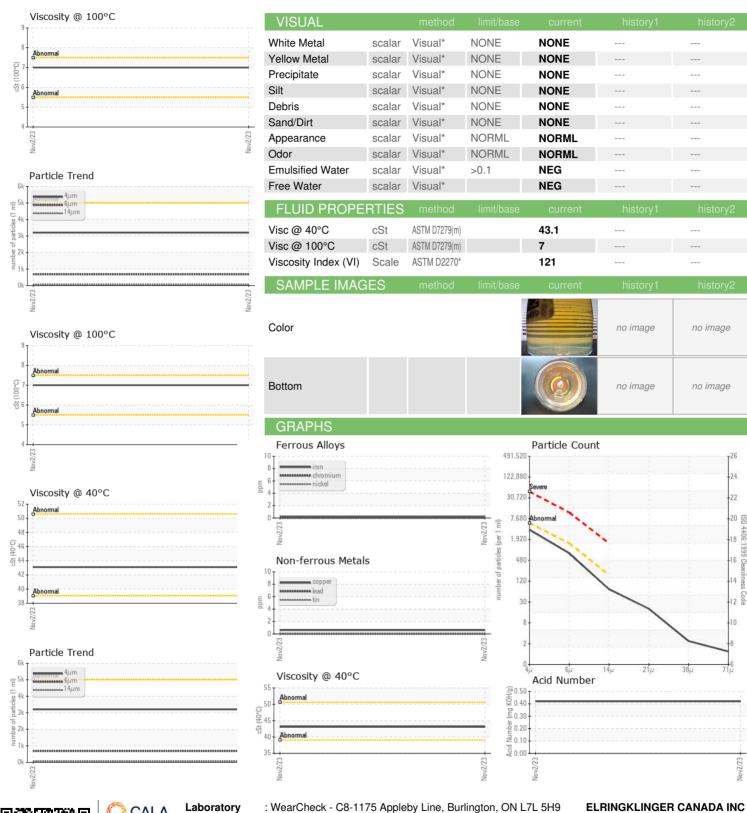
				Nov2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0069619		
Sample Date		Client Info		02 Nov 2023		
Machine Age	days	Client Info		0		
Oil Age	days	Client Info		0		
Oil Changed	,	Client Info		N/A		
Sample Status				NORMAL		
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<1		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>10	<1		
Lead	ppm	ASTM D5185(m)	>10	0		
Copper	ppm	ASTM D5185(m)		<1		
Tin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)	<i>&gt;</i> 10	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium		ASTM D5185(m)		0		
Cadmium	ppm ppm	ASTM D5185(m)		0		
ADDITIVES	ррпп		limit/base			history2
		method	IIIIIVbase	current	history1	nistoryz
Boron	ppm	ASTM D5185(m)		5		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		1		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		14		
Calcium	ppm	ASTM D5185(m)		116		
Phosphorus	ppm	ASTM D5185(m)		338		
Zinc	ppm	ASTM D5185(m)		439		
Sulfur	ppm	ASTM D5185(m)		845		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<1		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	0		
FLUID CLEAN	ILINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3205		
Particles >6µm		ASTM D7647	>1300	675		
Particles >14µm		ASTM D7647	>160	62		
Particles >21µm		ASTM D7647	>40	17		
Particles >38µm		ASTM D7647	>10	2		
Particles >71µm		ASTM D7647		1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/13		
FLUID DEGRA	AOLTAG	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOU/a	ASTM D07//*	— mm/base	0.42	— mstory i	— HISTORY Z
ACID NILIMPAY (ANI)	ma Kijela	Δ \ I I\/I I I U / / I ×		11 /1:7		

Acid Number (AN)

mg KOH/g ASTM D974\*



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

: PC0069619

Received : 02594624 Diagnosed

: 5671703 Diagnostician Test Package : IND 2 (Additional Tests: KV100, VI)

: 07 Nov 2023

: 08 Nov 2023

: Wes Davis

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

1 SENECA ROAD, R.R. #4 LEAMINGTON, ON CA N8H 5P2 Contact: Dave Fawdry

david.fawdry@elringklinger.ca T: (519)326-6113

F: (519)326-6327