

OIL ANALYSIS REPORT

Area [5974549] **6 NEW PRODUCTION FYRQUEL EHC PLUS**

New (Unused) Oil

ICL FYRQUEL EHC PLUS (--- GAL)

Sample Rating Trend



Recommendation

This is the baseline readout on this new (unused) oil. The fluid is suitable for service.

Wear

{not applicable}

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. There is no indication of any contamination in the new (unused) oil.

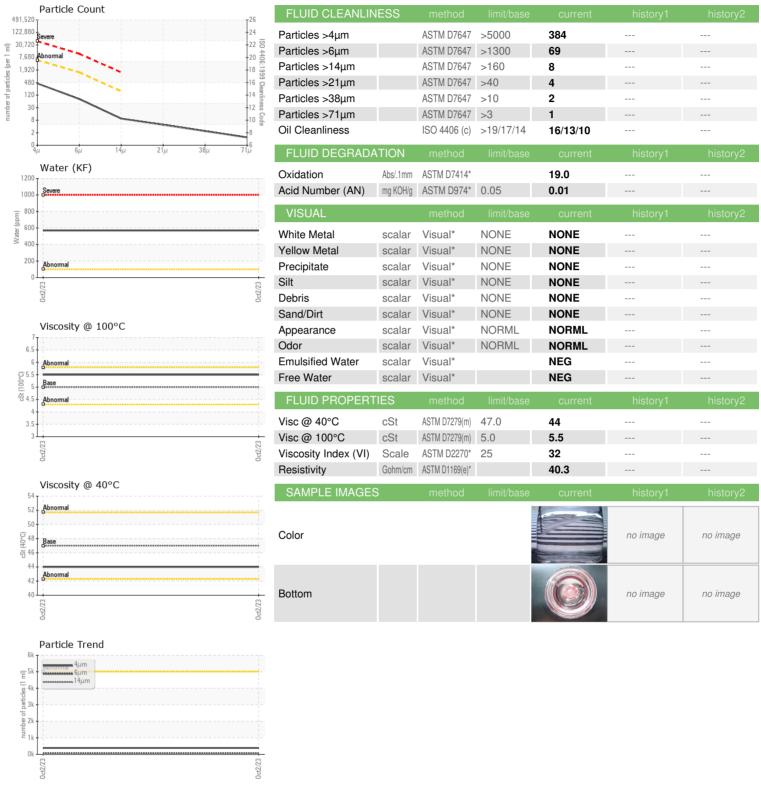
Fluid Condition

The condition of the oil is suitable for service.

Sample Number Client Info WC Sample Date Client Info 02 Oct 2023 Machine Age hrs Client Info 0 Oil Age hrs Client Info N/A Oil Changed Client Info N/A Sample Status NORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185(m) >5 0 Chromium ppm ASTM D5185(m) >5 0 Nickel ppm ASTM D5185(m) >5 <1 Titanium ppm ASTM D5185(m) >5 <1 Aluminum ppm ASTM D5185(m) >5 0 Copper ppm ASTM D5185(m) >5 0 </th <th>istory2</th> <th> histor</th> <th> history1</th> <th>WC 02 Oct 2023 0 0 N/A NORMAL current</th> <th></th> <th>Client Info Client Info Client Info Client Info</th> <th>hrs</th> <th>Sample Number Sample Date Machine Age Oil Age Oil Changed</th>	istory2	histor	history1	WC 02 Oct 2023 0 0 N/A NORMAL current		Client Info Client Info Client Info Client Info	hrs	Sample Number Sample Date Machine Age Oil Age Oil Changed
Sample Date Client Info 02 Oct 2023 Machine Age hrs Client Info 0 Oil Age hrs Client Info N/A Oil Changed Client Info N/A Sample Status NORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185(m) >5 0 Chromium ppm ASTM D5185(m) >5 0 Nickel ppm ASTM D5185(m) >5 <1 Titanium ppm ASTM D5185(m) >5 <1 Silver ppm ASTM D5185(m) >5 0 Lead ppm ASTM D5185(m) >5 0 Copper ppm ASTM D5185(m)	story2	 histor		02 Oct 2023 0 0 N/A NORMAL current		Client Info Client Info Client Info		Sample Date Machine Age Oil Age Oil Changed
Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status NORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185(m) >5 0 Chromium ppm ASTM D5185(m) >5 0 Nickel ppm ASTM D5185(m) >5 <1	story2	 histor		0 0 N/A NORMAL current		Client Info		Machine Age Oil Age Oil Changed
Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status NORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185(m) >5 0 Chromium ppm ASTM D5185(m) >5 0 Nickel ppm ASTM D5185(m) >5 <1 Titanium ppm ASTM D5185(m) >5 <1 Silver ppm ASTM D5185(m) >5 0 Lead ppm ASTM D5185(m) >5 0 Copper ppm ASTM D5185(m) >5 0	story2	 histor	history1	0 N/A NORMAL current 0		Client Info		Oil Age Oil Changed
Oil Changed Sample Status Client Info N/A WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185(m) >5 0 Chromium ppm ASTM D5185(m) >5 0 Nickel ppm ASTM D5185(m) >5 <1	istory2	histor	history1	N/A NORMAL current			hrs	Oil Changed
Sample Status NORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185(m) >5 0 Chromium ppm ASTM D5185(m) >5 0 Nickel ppm ASTM D5185(m) >5 <1	story2	histor	history1	current 0	limit/base	Client Info		
WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185(m) >5 0 Chromium ppm ASTM D5185(m) >5 0 Nickel ppm ASTM D5185(m) >5 <1	istory2	histor	history1	current 0	limit/base			Sample Status
Iron ppm ASTM D5185(m) >5 0 Chromium ppm ASTM D5185(m) >5 0 Nickel ppm ASTM D5185(m) >5 <1 Titanium ppm ASTM D5185(m) >5 <1 Silver ppm ASTM D5185(m) >5 <1 Aluminum ppm ASTM D5185(m) >5 0 Lead ppm ASTM D5185(m) >5 0 Copper ppm ASTM D5185(m) >5 0	istory2			0	limit/base			
Chromium ppm ASTM D5185(m) >5 0 Nickel ppm ASTM D5185(m) >5 <1				-		method		WEAR METALS
Nickel ppm ASTM D5185(m) >5 <1 Titanium ppm ASTM D5185(m) 0 Silver ppm ASTM D5185(m) >5 <1 Aluminum ppm ASTM D5185(m) >5 0 Lead ppm ASTM D5185(m) >5 0 Copper ppm ASTM D5185(m) >5 0					>5	ASTM D5185(m)	ppm	Iron
Titanium ppm ASTM D5185(m) 0 Silver ppm ASTM D5185(m) >5 <1 Aluminum ppm ASTM D5185(m) >5 0 Lead ppm ASTM D5185(m) >5 0 Copper ppm ASTM D5185(m) >5 0				0	>5	ASTM D5185(m)	ppm	Chromium
Silver ppm ASTM D5185(m) >5 <1 Aluminum ppm ASTM D5185(m) >5 0 Lead ppm ASTM D5185(m) >5 0 Copper ppm ASTM D5185(m) >5 0				<1	>5	ASTM D5185(m)	ppm	Nickel
Aluminum ppm ASTM D5185(m) >5 0 Lead ppm ASTM D5185(m) >5 0 Copper ppm ASTM D5185(m) >5 0				0		ASTM D5185(m)	ppm	Titanium
Lead ppm ASTM D5185(m) >5 0 Copper ppm ASTM D5185(m) >5 0				<1	>5	ASTM D5185(m)	ppm	Silver
Copper ppm ASTM D5185(m) >5 0				0	>5	ASTM D5185(m)	ppm	Aluminum
				0	>5	ASTM D5185(m)	ppm	Lead
Tin				0	>5	ASTM D5185(m)	ppm	Copper
Ppm Admibilio(iii) >5				0	>5	ASTM D5185(m)	ppm	Tin
Antimony ppm ASTM D5185(m) 0				0		ASTM D5185(m)	ppm	Antimony
Vanadium ppm ASTM D5185(m) 0				0		ASTM D5185(m)	ppm	Vanadium
Beryllium ppm ASTM D5185(m) 0				0		ASTM D5185(m)	ppm	Beryllium
Cadmium ppm ASTM D5185(m) 0				0		ASTM D5185(m)	ppm	
ADDITIVES method limit/base current history1 history	istory2	histo	history1	current	limit/base			Cadmium
Boron ppm ASTM D5185(m) <1			,			method		
Barium ppm ASTM D5185(m) <1				<1			ppm	ADDITIVES
Molybdenum ppm ASTM D5185(m) 0						ASTM D5185(m)		ADDITIVES Boron
morpha manufacturi,						ASTM D5185(m)		ADDITIVES Boron
,,				<1 0		ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	ppm ppm	ADDITIVES Boron Barium Molybdenum
Manganese ppm ASTM D5185(m) 0				<1 0 0		ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0				<1 0 0 0		ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0				<1 0 0 0 0 <1		ASTM D5185(m)	ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) <1 Phosphorus ppm ASTM D5185(m) 48845				<1 0 0 0 0 <1 48845		ASTM D5185(m)	ppm ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) <1 Phosphorus ppm ASTM D5185(m) 48845 Zinc ppm ASTM D5185(m) <1 Sulfur ppm ASTM D5185(m) 4				<1 0 0 0 0 <1 48845 <1		ASTM D5185(m)	ppm ppm ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) <1 Phosphorus ppm ASTM D5185(m) 48845 Zinc ppm ASTM D5185(m) <1				<1 0 0 0 0 <1 48845 <1		ASTM D5185(m)	ppm ppm ppm ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) <1 Phosphorus ppm ASTM D5185(m) 48845 Zinc ppm ASTM D5185(m) <1 Sulfur ppm ASTM D5185(m) 4 Lithium ppm ASTM D5185(m) <1	istory2			<1 0 0 0 0 <1 48845 <1 4		ASTM D5185(m)	ppm ppm ppm ppm ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) <1 Phosphorus ppm ASTM D5185(m) 48845 Zinc ppm ASTM D5185(m) <1 Sulfur ppm ASTM D5185(m) 4 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 histo Silicon ppm ASTM D5185(m) >15 0	story2	histor	 history1	<1 0 0 0 0 <1 48845 <1 4 <1	limit/base	ASTM D5185(m)	ppm ppm ppm ppm ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) <1 Phosphorus ppm ASTM D5185(m) 48845 Zinc ppm ASTM D5185(m) <1 Sulfur ppm ASTM D5185(m) 4 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 histo Silicon ppm ASTM D5185(m) >15 0 Sodium ppm ASTM D5185(m) 0	story2	histor	history1	<1 0 0 0 0 <1 48845 <1 4 <1	limit/base >15	ASTM D5185(m)	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) <1 Phosphorus ppm ASTM D5185(m) 48845 Zinc ppm ASTM D5185(m) <1 Sulfur ppm ASTM D5185(m) 4 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 histo Silicon ppm ASTM D5185(m) >15 0	story2	histor	history1	<1 0 0 0 0 <1 48845 <1 4 <1 current 0	limit/base >15	ASTM D5185(m)	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) <1	story2	histor	history1	<1 0 0 0 0 <1 48845 <1 4 <1 current 0 0 <1	limit/base >15	ASTM D5185(m)	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) <1	story2	histor	history1	<1 0 0 0 0 <1 48845 <1 4 <1 current 0 0 <1 0.057	limit/base >15	ASTM D5185(m)	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) <1	istory2	histor	history1	<1 0 0 0 0 <1 48845 <1 4 <1 current 0 0 <1 0.057 570	limit/base >15 >20	ASTM D5185(m) ASTM D6304*	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) <1		histor histor	history1 history1	<1 0 0 0 0 41 48845 <1 4 <1 current 0 0 <1 0.057 570 current	limit/base >15 >20	ASTM D5185(m) ASTM D6304* ASTM D6304*	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) <1		histor histor	history1 history1 history1	<1 0 0 0 0 41 48845 <1 4 <1 current 0 0 0 <1 0.057 570 current 0.2	limit/base >15 >20	ASTM D5185(m) ASTM D6304* ASTM D6304*	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water INFRA-RED Soot %



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

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

: WC

: 02588774 : 5657840

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 12 Oct 2023 Diagnosed

: 17 Oct 2023 Diagnostician : Bill Quesnel **ICL INDUSTRIAL PRODUCTS** 11636 HUNTINGTON RD

GALLIPOLIS FERRY, WV US 25515

Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtCount, Resistivity, TAN Man, VI) Contact: Elvis Zeke To discuss this sample report, contact Customer Service at 1-800-268-2131. Elvis.Zerkle@icl-group.com

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.

T: (304)675-8349 F: (304)675-7504