



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

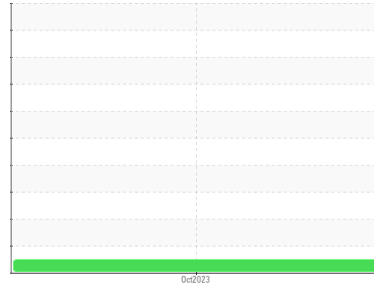


Area
[5974549]

Machine Id
6 NEW PRODUCTION FYRQUEL EHC PLUS

Component
New (Unused) Oil

Fluid
ICL FYRQUEL EHC PLUS (--- GAL)



DIAGNOSIS

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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC	---	---
Sample Date	Client Info		02 Oct 2023	---	---
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	history2
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)		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	---
Tin	ppm	ASTM D5185(m)	>5	0	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	---
Barium	ppm	ASTM D5185(m)		<1	---
Molybdenum	ppm	ASTM D5185(m)		0	---
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

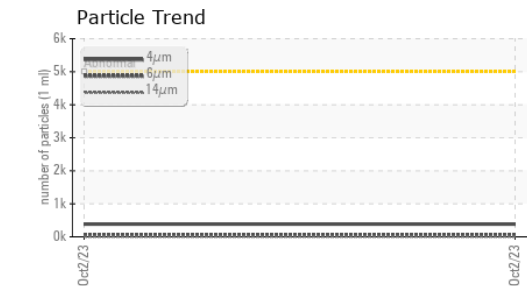
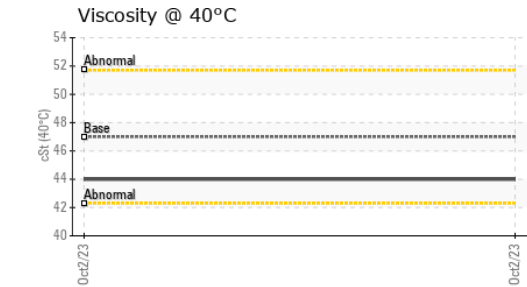
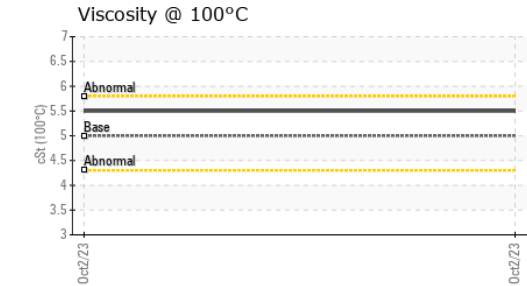
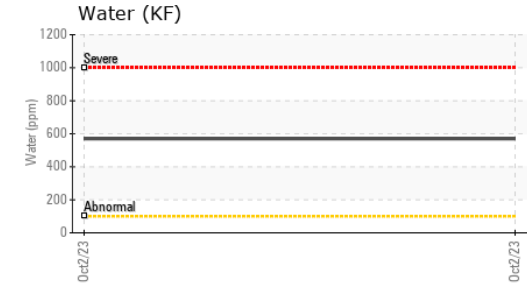
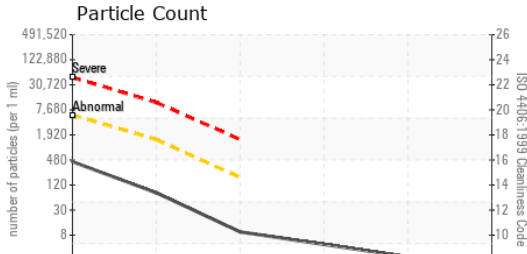
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	---
Sodium	ppm	ASTM D5185(m)		0	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---
Water	%	ASTM D6304*		0.057	---
ppm Water	ppm	ASTM D6304*		570	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0.2	---
Nitration	Abs/cm	ASTM D7624*		30.1	---
Sulfation	Abs./1mm	ASTM D7415*		114.6	---



OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	384	---	---
Particles >6µm	ASTM D7647	>1300	69	---	---
Particles >14µm	ASTM D7647	>160	8	---	---
Particles >21µm	ASTM D7647	>40	4	---	---
Particles >38µm	ASTM D7647	>10	2	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	16/13/10	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414*		19.0	---	---
Acid Number (AN)	mg KOH/g ASTM D974*	0.05	0.01	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar Visual*	NONE	NONE	---	---
Yellow Metal	scalar Visual*	NONE	NONE	---	---
Precipitate	scalar Visual*	NONE	NONE	---	---
Silt	scalar Visual*	NONE	NONE	---	---
Debris	scalar Visual*	NONE	NONE	---	---
Sand/Dirt	scalar Visual*	NONE	NONE	---	---
Appearance	scalar Visual*	NORML	NORML	---	---
Odor	scalar Visual*	NORML	NORML	---	---
Emulsified Water	scalar Visual*		NEG	---	---
Free Water	scalar Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	47.0	44	---	---
Visc @ 100°C	cSt ASTM D7279(m)	5.0	5.5	---	---
Viscosity Index (VI)	Scale ASTM D2270*	25	32	---	---
Resistivity	Gohm/cm ASTM D1169(e)*		40.3	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : **02588774**
Unique Number : 5657840
Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtCount, Resistivity, TAN Man, VI)

ICL INDUSTRIAL PRODUCTS
 11636 HUNTINGTON RD
 GALLIPOLIS FERRY, WV
 US 25515
 Contact: Elvis Zeke
 Elvis.Zerkle@icl-group.com
 T: (304)675-8349
 F: (304)675-7504

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.