

OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base

current

history1



history2

Machine Id

EPIROC ST7 SCP212

Component Diesel Engine Fluid SAE 15W40 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. The water content is negligible. No other contaminants were detected in the oil.

Fluid Condition

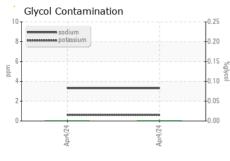
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

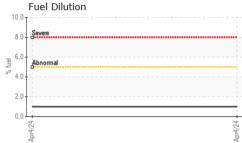
Sample Number		Client Info		WC0928366				
Sample Date		Client Info		04 Apr 2024				
Machine Age	hrs	Client Info		7606				
Oil Age	hrs	Client Info		0				
Oil Changed		Client Info		N/A				
Sample Status				ABNORMAL				
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>100	13				
Chromium	ppm	ASTM D5185(m)	>20	0				
Nickel	ppm	ASTM D5185(m)	>4	0				
Titanium	ppm	ASTM D5185(m)		0				
Silver	ppm	ASTM D5185(m)	>3	0				
Aluminum	ppm	ASTM D5185(m)	>20	2				
Lead	ppm	ASTM D5185(m)	>40	0				
Copper	ppm	ASTM D5185(m)	>330	<1				
Tin	ppm	ASTM D5185(m)	>15	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				
	1-1-	method	limit/base		biotoput	history ()		
ADDITIVES			limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)		66				
Barium	ppm	ASTM D5185(m)		0				
Volybdenum	ppm	ASTM D5185(m)		37				
Manganese	ppm	ASTM D5185(m)		<1				
Magnesium	ppm	ASTM D5185(m)		494				
Calcium	ppm	ASTM D5185(m)		1671				
Phosphorus	ppm	ASTM D5185(m)		752				
Zinc	ppm	ASTM D5185(m)		863				
Sulfur	ppm	ASTM D5185(m)		2240				
Lithium	ppm	ASTM D5185(m)		<1				
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>25	4				
Sodium	ppm	ASTM D5185(m)	>57	3				
Potassium	ppm	ASTM D5185(m)	>20	<1				
Fuel	%	ASTM D7593*	>5	1				
Water	%	ASTM D6304*	>0.2	0.031				
opm Water	ppm	ASTM D6304*	>2000	310				
Glycol	%	ASTM D7922*		0.0				
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	ASTM D7844*	>3	0				
Nitration	Abs/cm	ASTM D7624*	>20	5.0				
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.2				
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Oxidation 59:58) Rev: 1	Abs/.1mm	ASTM D7414*	>25	19.4 Contact/Location: Jay Gould - KIR370KIF				

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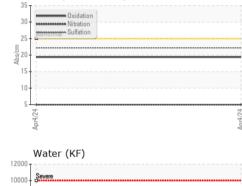


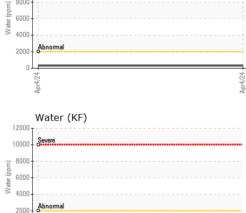
OIL ANALYSIS REPORT











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	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance Odor	scalar	Visual* Visual*	NORML NORML	NORML		
Emulsified Water	scalar scalar	Visual*	>0.2	NORML		
Free Water	scalar	Visual*	>0.2	NEG		
FLUID PROPER		method	limit/base	current	history1	history2
Visc @ 100°C	cSt		14.5	▲ 11.7		
GRAPHS	COL	ASTM D7279(m)	14.5	11.7		
Iron (ppm)				Lead (ppm)		
⁵⁰ T						
DO - Severe				80 - Severe		
50 - Abnormal			E.	60 - Abnormal		
		*********************		40 -		
0				0		
Apr4/24			Apr4/24 -	Apr4/24		Ant4/24 -
			Ap			Ap
Aluminum (ppm)				Chromium (p	pm)	
10 Severe				40 - Severe		
20 - Abnormal			mqq	30		
20 - Abnormal			id.	20 - Abnormal		
10-				10-		
Apr4/24			Apr4/24	Apr4/24		Aor4/24 +
Apr			Apr	Apr		Apr
Copper (ppm)				Silicon (ppm)		
Abnomal						
300				60		
200 -			udd	Abnormal		
100-				20		
			24	54		24
Apr4/24			Apr4/24 -	Apr4/24		Anr4/24
Viscosity @ 100°	2			Soot %		
Abnormal				.0 Severe		, , ,
16						
Base Abnormal			soot soot soot	.0 - Abnormal		
Abnormal			2	.0-		

1.0

0.0

Apr4/24

Apr4/24 -

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Agnico Eagle Canada CALA Sample No. : WC0928366 Received : 10 Apr 2024 1350 Government Rd. W, MACASSA COMPLEX Tested : 11 Apr 2024 Kirkland Lake, ON Lab Number : 02627799 ISO 17025:2017 Accredited Unique Number : 5760931 Diagnosed : 11 Apr 2024 - Kevin Marson CA P2N 3J1 Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KF, PercentFuel, Visual) Contact: Jay Gould MacassaMobileUGPlanning@agnicoeagle.com To discuss this sample report, contact Customer Service at 1-800-268-2131. T: (705)567-5208 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. F: (705)567-5221

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Apr4/24.

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Contact/Location: Jay Gould - KIR370KIR

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