

# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



MINING ME-56 VOLVO L350F ME-56

Component Transmission

## Fluid SHELL Spirax S4 CX 30 (--- GAL)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

Area

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the fluid.

### Fluid Condition

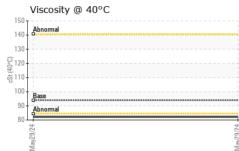
The condition of the fluid is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0939959		
Sample Date		Client Info		29 May 2024		
Machine Age	hrs	Client Info		11775		
Oil Age	hrs	Client Info		1500		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	12		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	1		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>400	39		
Tin	ppm	ASTM D5185m	>20	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		10		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		152		
Calcium	ppm	ASTM D5185m		2835		
Phosphorus	ppm	ASTM D5185m		1183		
Zinc	ppm	ASTM D5185m		1344		
Sulfur	ppm	ASTM D5185m		=		
CONTAMINANTS				7043		
		method	limit/base	current	 history1	history2
Silicon	ppm	method ASTM D5185m	limit/base >30			
				current	history1	history2
Silicon	ppm	ASTM D5185m	>30	current 5	history1	history2
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>30	current 5 0	history1 	history2
Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	>30 >20 limit/base NONE	current 5 0 2 current NONE	history1  	history2  
Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *Visual *Visual	>30 >20 limit/base NONE NONE	current 5 0 2 current NONE NONE	history1   history1	history2   history2
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m •Visual *Visual *Visual	>30 >20 limit/base NONE NONE NONE	current 5 0 2 current NONE NONE NONE	history1   history1 	history2   history2 
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>30 >20 limit/base NONE NONE NONE NONE	current 5 0 2 current NONE NONE NONE NONE	history1   history1 	history2   history2 
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	>30 >20 limit/base NONE NONE NONE NONE NONE	current 5 0 2 current NONE NONE NONE NONE NONE	history1   history1  	history2   history2  
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>30 >20 limit/base NONE NONE NONE NONE NONE	current 5 0 2 current NONE NONE NONE NONE NONE NONE	history1  history1  	history2 history2 history2 history2
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>30 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	current 5 0 2 current NONE NONE NONE NONE NONE NONE NONE NON	history1 history1	history2 history2
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>30 >20 limit/base NONE NONE NONE NONE NONE NORML NORML	current 5 0 2 current NONE NONE NONE NONE NONE NONE NONE NORML NORML	history1 history1	history2 history2
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>30 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	current 5 0 2 current NONE NONE NONE NONE NONE NONE NONE NON	history1 history1	history2 history2

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FLUID PROPI	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	93.9	82.1		
SAMPLE IMA	GES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS					!	
Ferrous Alloys	etals		Ma/29/24			
: WearCheck USA : WC0939959 : 06198455 : 11060578 : CONST contact Customer S	Receiv Tested Diagno	red : 03 I : 04 Dised : 04	, NC 27513 Jun 2024 Jun 2024 Jun 2024 - V 9.	Ves Davis	L Contad @samuel.donner	TTAWA ROAE E SUEUR, MN IS 56058-4292 ct: Sam Donne

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)

Certificate L2367

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F: