

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id VOLVO A30G HDTR0824

Fluid GEAR OIL SAE 80W90 (--- GAL)

Middle Left Planetary

SAMPLE INFORMATION method WC0902322 Sample Number **Client Info** 05 Apr 2024 Sample Date Client Info 26244 Machine Age hrs **Client Info** Oil Age hrs Client Info 0 Oil Changed **Client Info** N/A NORMAL Sample Status CONTAMINATION Water WC Method >0.2 NEG WEAR METALS Iron ppm ASTM D5185(m) >500 173 Chromium ASTM D5185(m) >10 2 ppm Nickel ppm ASTM D5185(m) >10 <1 Titanium ASTM D5185(m) 0 ppm Silver n ppm ASTM D5185(m) Aluminum ppm ASTM D5185(m) >25 2 Lead ASTM D5185(m) >25 0 ppm >75 4 Copper ppm ASTM D5185(m) 0 Tin ASTM D5185(m) >10 ppm Antimony 0 ppm ASTM D5185(m) >5 Vanadium 0 ppm ASTM D5185(m) Beryllium ppm ASTM D5185(m) 0 0 Cadmium ASTM D5185(m) ppm Boron mag ASTM D5185(m) 400 97 Barium ASTM D5185(m) 200 0 ppm 0 Molybdenum ASTM D5185(m) 12 ppm ASTM D5185(m) Manganese ppm 1 7 Magnesium ASTM D5185(m) 12 ppm 49 Calcium ppm ASTM D5185(m) 150 Phosphorus ppm ASTM D5185(m) 1650 722 125 Zinc ppm ASTM D5185(m) 26 Sulfur ASTM D5185(m) 22500 20665 ppm Lithium ppm ASTM D5185(m) <1 Silicon ASTM D5185(m) >75 10 ppm Sodium ppm ASTM D5185(m) >170 1 Potassium ppm ASTM D5185(m) >20 <1

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

Wear

All component wear rates are normal.

Contamination

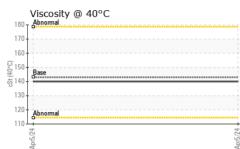
There is no indication of any contamination in the oil.

Fluid Condition

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



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	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	143	140		
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS Iron (ppm)				Lead (ppm)		
Iron (ppm)			150	Savara		
Iron (ppm)			E ¹⁰⁰	Severe		
Iron (ppm)				Abnormal		
Iron (ppm)				Abnormal		
Iron (ppm)			튼 ¹⁰⁰ 문 ₅₀	April 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	pm)	
Aluminum (ppm)				Abnormal brygdy Chromium (pj	pm)	
Iron (ppm)			E 100 50 100 100 100 100 100 100 100 100 1	Abnormal Abnormal Chromium (pp	pm)	
Iron (ppm)			42/3404 30 100 100 100 100	Abnomal Abnomal Chromium (p)	pm)	
Aluminum (ppm)			900 902 902 902 902 902 902 902 902 902	Abnormal 	pm)	
Iron (ppm)			42/3404 30 100 100 100 100	Abnomal Abnomal P2gddy Chromium (pi	pm)	
Iron (ppm)			900 902 902 902 902 902 902 902 902 902	Abnormal Abnormal Abnormal Abnormal Abnormal Bevere Abnormal Bevere Bevere Abnormal Bevere	pm)	
Iron (ppm)			4022 402 40	Abnomal Abnomal Abnomal Abnomal Bevere Abnomal Bevere B	pm)	
Iron (ppm)			4022 402 40	Abnomal Abnomal Abnomal Abnomal Bevere Abnomal Bevere B	pm)	
Iron (ppm)			4002 400 400	Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Bevere Severe Abnormal Abnormal	pm)	
Iron (ppm)			400 400 400 400 400 400 400 400	Severe Abnormal Pt/gddy Chromium (pp Severe Abnormal F//gddy Silicon (ppm) Severe Abnormal	pm)	
Iron (ppm)			4 1000 4 1000	Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Bevere Abnormal	pm)	
Iron (ppm)			4002 400 400	Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Bevere Abnormal	pm)	
Iron (ppm)			4012/2/4 4012/2/2/4 4012/2/2/4 4012/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	Severe Abnormal Progrady Chromium (pp Severe Abnormal Progrady Silicon (ppm) Severe Abnormal Progrady Abnormal Progrady Abnormal Abnormal Progrady Silicon (ppm)	pm)	
Iron (ppm) Severe Abnormal Abnormal Copper (ppm) Copper (ppm) Severe Abnormal Copper (ppm) Viscosity @ 40°C Abnormal Severe Abnormal Copper (ppm)			4 1000 4 1000	Severe Abnormal Pt/gddy Chromium (pp Severe Abnormal Pt/gddy Silicon (ppm) Severe Abnormal Pt/gddy Silicon (ppm) Severe Abnormal Pt/gddy Silicon (ppm)	pm)	
Iron (ppm)			4012/2/4 4012/2/2/4 4012/2/2/4 4012/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	Severe Abnormal Pt/gddy Chromium (pp Severe Abnormal Pt/gddy Silicon (ppm) Severe Abnormal Pt/gddy Silicon (ppm) Severe Abnormal Pt/gddy Silicon (ppm)	pm)	



 Iso 17025:2017 Accredited Laboratory
 Lab Number
 : 02628565
 Tested
 : 12 Apr 2024
 Kirkland Lake, ON

 Accredited Laboratory
 Unique Number
 : 5761697
 Diagnosed
 : 12 Apr 2024 - Wes Davis
 CA P2N 3J1

 To discuss this sample report, contact Customer Service at 1-800-268-2131.
 AEM_KL_macassaoilsampleresults@agnicoeagle.com

 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 T: (705)567-5208

 Validity of results and interpretation are based on the sample and information as supplied.
 F: (705)567-5221

Report Id: KIR370KIR [WCAMIS] 02628565 (Generated: 04/12/2024 15:33:27) Rev: 1

CALA

Contact/Location: Mitch Lamontagne - KIR370KIR