

NORMAL WEAR CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

## Ascendum Machinery/250 Hour CSA CATERPILLAR D5M 1145 (S/N 5ES00650) **Rear Left Final Drive**

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0007032	VCP0007311	
	Sample Date		Client Info		17 Apr 2024	27 Feb 2023	
	Machine Age	hrs	Client Info		4070	270	
	Oil Age	hrs	Client Info		4070	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m		539	▲ 1250	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		4	8	
	Nickel	ppm	ASTM D5185m		<1	2	
	Titanium	ppm	ASTM D5185m		2	8	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m		27	133	
	Lead	ppm	ASTM D5185m		3	1	
	Copper	ppm	ASTM D5185m		2	2	
	Tin	ppm	ASTM D5185m	>8	<1	0	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	MODER	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>400	78	<b>4</b> 341	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	14	
·····	Water		WC Method	>0.2	NEG	NEG	
	Silt	scalar	*Visual	NONE	LIGHT	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	14	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	111	73	172	
	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m	0.9	1	<1	
	Manganese	ppm	ASTM D5185m	0.0	5	10	
	Magnesium	ppm	ASTM D5185m	39	12	19	
	Calcium	ppm	ASTM D5185m		87	99	
	Phosphorus	ppm	ASTM D5185m		1034	852	
	Zinc	ppm	ASTM D5185m	104	77	50	
	Sulfur	ppm	ASTM D5185m	20179	21911	19722	
	Visc @ 40°C	0°\$†	ASTM D445	222	150	204	

Visc @ 40°C

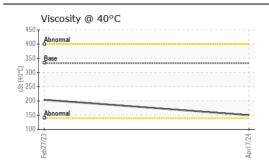
cSt

ASTM D445 333

Submitted By: KARRINGTON RENDLEMAN

204

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Sample No. : ASC0007032 Received : 23 Apr 2024 1521 Huffman Mill Rd Lab Number : 06158054 Tested : 24 Apr 2024 BURLINGTON, NC Unique Number : 10993477 Diagnosed : 24 Apr 2024 - Wes Davis US 27216 Test Package : CONST Contact: ADAM CORBETT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. wacorbett@trianglegradingpaving.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)584-0145

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Laboratory

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