

WEAR CONTAMINATION FLUID CONDITION

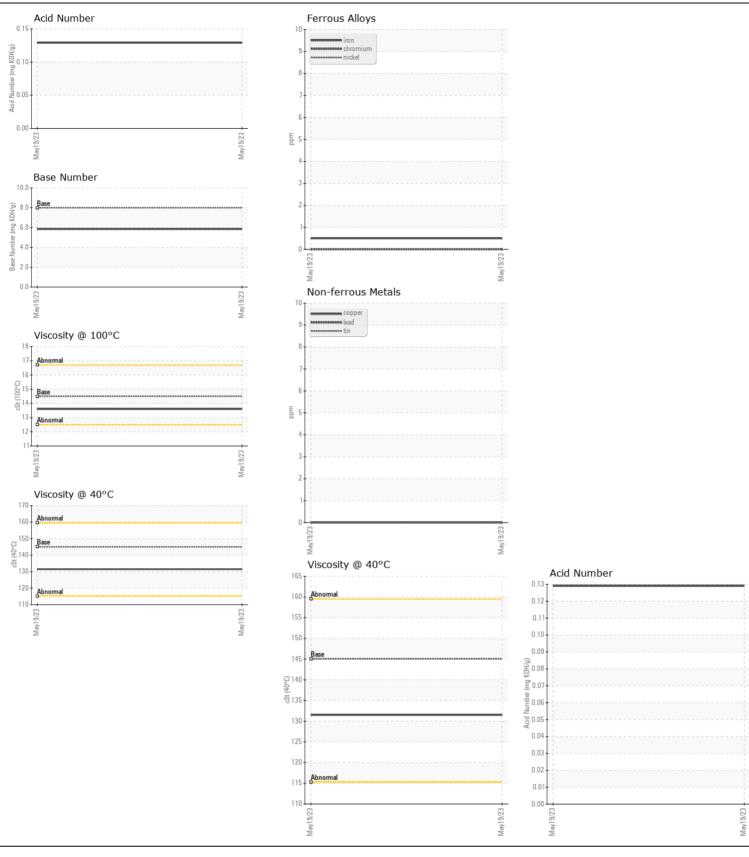
NORMAL NORMAL



Machine Id CATERPILLAR GM01 - DA LUBRICANT BLUE FLAME HB-5 SAE 40 (S/N LGS00177)

New (Unused) Oil

D-A Lubricant Blue Flame HB-8 4	0W (GA	AL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
This is a baseline read-out on the submitted sample.	Sample Number		Client Info		WC0760088		
	Sample Date		Client Info		19 May 2023		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m		<1		
WLAN	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
Y	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	···				_		
CONTAMINATION	Silicon	ppm	ASTM D5185m	00	5		
	Potassium	ppm	ASTM D5185m	>20	1		
	Water		WC Method	NIONIE	NEG		
	Silt Debris	scalar	*Visual	NONE NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE NONE		
	Appearance	scalar scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	TYOTHYL	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m		1		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		1		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		7		
	Calcium	ppm	ASTM D5185m		1273		
	Phosphorus	ppm	ASTM D5185m		278		
	Zinc	ppm	ASTM D5185m		355		
	Sulfur	ppm	ASTM D5185m		2932		
		mg KOH/g	ASTM D8045	0	0.129		
	Base Number (BN)				5.85		
	Visc @ 40°C Visc @ 100°C	cSt cSt	ASTM D445 ASTM D445		131.5		
			ASTM D445 ASTM D2270		13.6 98		
v	viscosity illuex (VI)	Scale	ASTIVI DZZIV	30	90		





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 05854735

: WC0760088

Received **Tested** Unique Number : 10484090

: 23 May 2023 : 25 May 2023 : 25 May 2023 - Jonathan Hester Diagnosed

ONSLOW 465 MEADOWVIEW RD JACKSONVILLE, NC US 28540

Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI)Contact: THOMAS BURTON Certificate L2367 thomas.burton@cubedistrictenergy.com 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)

T: F: